Phe Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Asp Asn Asn Asn Arg 180 $$180\,$

Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser

Ala Thr Leu Gly Ile Thr Gly Leu Gln Thr Gly Asp Glu Ala Asp Tyr $210 \hspace{1cm} 215 \hspace{1cm} 220 \hspace{1cm}$

Tyr Cys Gly Thr Trp Asp Arg Ser Leu Ser Val Val Val Phe Gly Gly 225 \$230\$

Gly Thr Lys Val Thr Val Leu Gly 245

<210> 862

<211> 258 <212> PRT

<213> Homo sapiens

<400> 862

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Ile Asp Gly $20 \ 25 \ 30$

Ser Ile Asn Trp Leu Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val \$35\$

Gly Gly Thr Ile Pro Leu Ala Asn Arg Ala Asn Tyr Ala Gln Lys Phe $50 \ \ \, 55 \ \ \, 60$

Arg Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Ala Ile Val Phe 65 70 75 80

Leu Glu Leu Thr Ser Leu Arg Ser Asp Asp Thr Ala Leu Tyr Tyr Cys $85 \hspace{1.5cm} 90 \hspace{1.5cm} 95$

Ala Arg Ser Ser Pro Pro Arg Trp Tyr Asp Ala Leu Thr Gly Asp Ser $100 \hspace{1cm} 105 \hspace{1cm} 101 \hspace{1cm}$

Ser Tyr His Ser Ala Met Asp Val Trp Gly Gln Gly Thr Met Val Thr 115 \$120\$

Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly 130 ' 135 140

Gly Ser Ala Gln Ser Ala Leu Thr Gln Pro Pro Ser Ala Ser Gly Ser 145 150 155 160

Pro Gly Gln Ser Val Thr Ile Ser Cys Ser Gly Thr Ser Ser Asp Ile

Gly Asp Ser Asn Ser Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala 180 185 190

Pro Lys Leu Leu Ile Tyr Glu Val Thr Lys Arg Pro Ser Gly Val Pro 195 200 205

Asp Arg Phe Ala Gly Ser Arg Ser Asp Asn Thr Ala Ser Leu Thr Val 210 215 220

Ser Gly Leu Gln Thr Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Ser 225 230 230 235

Ala Ala Arg Asn His Leu Val Phe Gly Gly Gly Thr Lys Val Thr Val 245 250 255

Leu Gly

<210> 863 <211> 255

<212> PRT <213> Homo sapiens

<400> 863

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Thr Val Ser Gly Asp Ser Phe Ser Arg His $20 \hspace{1cm} 25 \hspace{1cm} 30 \hspace{1cm}$

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40 45

Gly Trp Ile Ser Val Tyr Asn Gly Asp Thr Lys Tyr Ala Gln Lys Val 50

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Asn Thr Val Tyr
65 70 75 80

Met Glu Leu Arg Arg Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 9.0 Ala Arg Asp Glu Gly Arg Asp Leu Leu Thr Gly Tyr Tyr Trp Pro Asn 110 100 105 Phe Phe Asp Ser Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly 115 120 125 Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu 130 135 140 Ser Tyr Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln 145 150 155 Arg Val Thr Ile Ser Cys Ser Gly Ser Arg Pro Asn Ile Gly Gly Asn 165 170 175 Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Ala Ala Pro Lys Leu Leu 180 185 190 Ile Tyr Ser Asn Ser Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser 195 200 205 Gly Ser Lys Tyr Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln 210 215 220 Ser Asp Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu 235 240 225 230 Thr Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250 255 <210> 864 <211> 259 <212> PRT <213> Homo sapiens <400> 864 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

1008

3.0

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Ile Asp Asp

25

Ser Ile Asn Trp Leu Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val $^{\circ}$ 35 $^{\circ}$ 40 $^{\circ}$ 45

Gly Gly Thr Ile Pro Leu Ala Asn Arg.Ala Asn Tyr Ala Gln Lys Phe 50 55 60

Arg Asp Arg Ala Thr Ile Thr Ala Asp Glu Leu Thr Ala Thr Val Phe $_{65}$ $_{70}$ $_{75}$

Leu Glu Leu Thr Ser Leu Arg Ser Asp Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ser Ser Pro Pro Lys Trp Tyr Asp Ala Leu Thr Gly His Ser 100 105 110

Ser Tyr His Ser Ala Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr l15 \$120\$

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly 130 135 140

Gly Ser Ala Gin Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr 145 150 155 160

Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Thr Asn Ser Asn Ile 165 \$170\$

Gly Gly Asn Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro 180 185 190

Arg Leu Leu Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp 195 200 205

Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser 210 220

Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Arg Asp 225 230235 235

Asp Arg Leu Asn Ala His Val Val Fhe Gly Gly Gly Thr Lys Val Thr 245 250 255

Val Leu Gly

<210> 865 <211> 258 <212> PRT

<213> Homo sapiens

<400> 865 Ghn Wal Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser

Ser Val Lys Val Ser Cys Arg Val Ser Gly Gly Ser Phe Thr Asp Asp 20 25 30

Ser Ile Asn Trp Leu Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val

Gly Gly Thr Ile Pro Leu Ala Asn Arg Ala Asn Tyr Ala Gln Lys Phe 50 55 60

Arg Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Ala Thr Val Phe 65 70 75 80

Leu Glu Leu Thr Ser Leu Arg Ser Asp Asp Thr Ala Leu Tyr Tyr Cys $85 \hspace{0.5cm} 90 \hspace{0.5cm} 95$

Ala Arg Ser Ser Pro Pro Lys Trp Tyr Asp Ala Leu Thr Gly Asp Ser $100 \hspace{1cm} 105 \hspace{1cm} 105 \hspace{1cm} 110 \hspace{1cm}$

Ser Tyr His Ser Ala Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr 115 120 125

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly 130 135 140

Gly Ser Ala Gln Ser Val Val Thr Gln Pro Pro Ser Val Ser Ala Ala 145 150 155 160

Pro Gly Gln Lys Val Thr Ile Ser Cys Ser Gly Ser Thr Ser Asn Ile . 165 170 175

Gly Arg Asn Tyr Val Ser Trp Tyr Gln Gln Leu Pro Gly Thr Ala Thr

Lys Leu Leu Ile Tyr Asp Asn Asn Lys Arg Pro Ser Gly Ile Pro Asp

Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Thr Leu Gly Ile Thr 210 215 220

Gly Leu Gln Thr Gly Asp Glu Ala Asp Tyr Tyr Cys Gly Thr Trp Asp 225 230 235

Ser Ser Leu Arg Ile Tyr Val Phe Gly Thr Gly Thr Lys Val Thr Val 245 250 255

Leu Glv

<210> 866

<211> 255

<212> PRT <213> Homo sapiens

<400> 866

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 . 5 . 10 . 15

Ser Val Lys Val Ser Cys Thr Val Ser Gly Asp Ser Phe Ser Arg His

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40 45

Gly Trp Ile Ser Val Tyr Asn Gly Asp Thr Lys Tyr Ala Gln Lys Val $50 \ \ 55 \ \ 60$

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Asn Thr Val Tyr 65 70 75 80

Met Glu Leu Arg Arg Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys \$85\$

Ala Arg Asp Glu Gly Arg Asp Leu Leu Thr Gly Tyr Tyr Trp Pro Asn $100 \hspace{1cm} 105 \hspace{1cm} 105 \hspace{1cm} 110 \hspace{1cm}$

Phe Phe Asp Ser Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Leu $130\,$

Ser Tyr Val Leu Thr Gln Pro Pro Ser Val Ser Gly Thr Pro Gly Gln 145 150 150 155

Lys Val Thr Ile Ser Cys Ser Gly Ser Arg Pro Asn Ile Gly Gly Asn 165 170 175

Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Ala Ala Pro Lys Leu Leu 180 185 190

Ile Tyr Ser Asn Ser Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser 195 200 205

Gly Ser Lys Tyr Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln $210 \ \ \, 220 \ \ \,$

Ser Asp Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu 225 230 235 240

Thr Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250 . 255

<210> 867

<211> 250

<212> PRT

<213> Homo sapiens

<400> 867

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr $20 \ 25 \ 30$

Gly Ile Thr Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met $35 \ -40 \ 45$

Gly Trp Ile Ser Ala Tyr Asn Gly Asn Arg Asn Tyr Ala Gln Lys Leu 50 60

Gin Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys $85 \hspace{1cm} 90 \hspace{1cm} 95$

Val Arg Asp Gly Ile Asp Ile Leu Leu Val Pro Ala Ala Leu Met Asp \cdot 100 \cdot 105 \cdot 110

Val Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr

Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser 145 150 155

Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp 165 170 175

Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly 180 185 190

Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser 195 200 205

Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu 210 215 220

Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe 225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 868

<211> 250 <212> PRT

<213> Homo sapiens

 $<\!400\!>$ 868 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr
20 25 30

Gly Ile Thr Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met $35 \hspace{1cm} 40 \hspace{1cm} 45$

Gly Trp Ile Ser Ala Tyr Asn Gly Asn Arg Asn Tyr Ala Gln Lys Leu 50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys

Val Arg Asp Gly Ile Asp Ile Leu Leu Val Pro Ala Ala Leu Met Asp 100 105 110

Val Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu Thr $130 \,$ $\,$ $135 \,$ $\,$ $140 \,$

Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser 145 150 150 160

Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp \$165\$ \$170\$

Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly $180\,$

Asn Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser 195 200 205

Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu 210 220

Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe 225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 869

<211> 257

<212> PRT

<213> Homo sapiens

 $<\!400>$ 869 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Met Lys Val Ser Cys Lys Ala Ser Ala Gly Arg Ala Ser Ala Tyr

Gly Phe Ala Met His Pro Ile His Trp Val Arg Gln Ala Pro Gly Gln 35 40 45

Gly Leu Glu Trp Met Gly Trp Ile Asn Gly Gly Thr Gly Asn Thr Lys $_{50} \\$

Tyr Ser Glu Lys Phe Leu Gly Arg Val Thr Met Thr Ser Asp Thr Ser 65 70 75 80

Ala Thr Thr Ala Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr $85 \hspace{0.5cm} 90 \hspace{0.5cm} 95 \hspace{0.5cm}$

Ala Val Tyr Tyr Cys Ala Arg Gln Asp Asn Asp Pro Leu Thr Gly Tyr 100 105 110

Lys Leu Gly Phe Asp Tyr Trp Gly Lys Gly Thr Leu Val Thr Val Ser $115 \\ 125 \\ 125$

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser 130 135 140

Ala Gln Ser Val Val Thr Gln Pro Pro Ser Val Ser Gly Ala Pro Gly 145 \$150\$

Gln Arg Val Thr Ile Ser Cys Thr Gly Ser Ser Thr Asn Val Gly Ala 165 170 175

Gly Tyr Gly Val His Trp Tyr Gln Gln Phe Pro Glu Thr Ala Pro Lys 180 . 185 . 190

Leu Leu Ile Tyr Gly Gly Ser Asn Arg Pro Ser Gly Val Pro Asp Arg 195 200 205

Phe Ser Gly Ser Gln Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly 210 220

Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Thr 225 230 235 240

Thr Leu Ser Gly Tyr Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu $245 \hspace{1.5cm} 250 \hspace{1.5cm} 250 \hspace{1.5cm} 255 \hspace{1.5cm}$

Gly

<210> 870 <211> 254

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<212> PRT
<213> Homo sapiens
<220>
<221> Site
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> Site
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> Site
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<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> Site
<222> (57).
<223> Xaa equals any of the naturally occurring L-amino acids
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<221> Site
 <222> (65)
 <223> Xaa equals any of the naturally occurring L-amino acids
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 <222> (67)
 <223> Xaa equals any of the naturally occurring L-amino acids
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 <222> (70)
 <223> Kaa equals any of the naturally occurring L-amino acids
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 <222> (170)
 <223> Xaa equals any of the naturally occurring L-amino acids
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 <221> Site
 <222> (176)
 <223> Kaa equals any of the naturally occurring L-amino acids
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 <222> (192)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> Site
 <222> (235)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> Site
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<222> (239)

<222> (239) <223> Kaa equals any of the naturally occurring L-amino acids

<220>

<221> Site

<222> (240)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 870

Gln Val Gln Leu Gln Gln Ser Gly Pro Gly Leu Val Lys Pro Ser Gln

1 5 10 15

Ile Leu Ser Leu Thr Cys Ala Ile Ser Gly Tyr Ser Val Ala Ser Asn 20 25 30

Gly Ala Ala Trp Asn Trp Ile Arg Gln Xaa Pro Ser Xaa Gly Leu Glu $35 \hspace{1cm} 40 \hspace{1cm} 45 \hspace{1cm}$

Trp Leu Xaa Arg Thr Tyr Tyr Arg Xaa Lys Trp Tyr Val Asp Tyr Ala 50 $\,$ 55 $\,$ 60 $\,$

Xaa Ser Xaa Lys Arg Xaa Ile Thr Ile Asn Pro Asp Thr Ser Lys Asn 65 70 75 80

Gln Phe Ser Leu Gln Leu Asn Ser Val Thr Pro Glu Asp Thr Val Val 85 90 95

Tyr Tyr Trp Ala Arg Asp Arg Tyr Asp Ile Leu Thr Gly Tyr Tyr Tyr $100 \\ 105$

Tyr Gly Met Asp Val Trp Gly Gln G1y Thr Met Val Thr Val Ser Ser 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln 130 135 140

Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Arg Gly Gln Ser 145 $$ 150 $$ 155 $$ 160

Ile Thr Ile Ser Cys Thr Gly Thr Thr Xaa Asp Val Gly Gly Tyr Xaa $_{165}$ $_{175}$

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Xaa 180 185 190

Ile Tyr Gly Asn Ser Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser $195 \hspace{1cm} 200 \hspace{1cm} 205 \hspace{1cm}$

Ala Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Phe Cys Ser Xaa Tyr Ala Pro Xaa Xaa 230 235 240 Ile Ile Met Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250 <210> 871 <211> 251 <212> PRT <213> Homo sapiens <400> 871 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Thr Gly Ala 10 1 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ile Phe Ala Asp Tyr 25 20 Tyr Val His Trp Val Arg Gln Ala Ala Gly Gln Gly Leu Glu Trp Met 35 Gly Trp Ile Asn Pro Asn Thr Gly Ser Thr Lys Tyr Ala Gln Lys Phe 55 Gln Asp Arg Val Thr Met Thr Arg Asp Thr Ser Ile Lys Thr Val Tyr 75 7.0 Met Glu Leu Arg Arg Leu Arg Ser Asp Asp Thr Ala Leu Tyr Tyr Cys 9.0 Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 1.05 110 Asp Ile Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly 125 120 Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 140 Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile 155 160 150 145

Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Asn Trp
1018

165 170 175

Tyr Gln Arg Leu Pro Gly Ala Ala Pro Gln Leu Leu Ile Tyr Asn Asn 180 185 190

Asp Gln Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser 195 200 205

Gly Thr Ser Gly Ser Leu Val Ile Ser Gly Leu Gln Ser Glu Asp Glu 210 215 220

Ala Asp Tyr Tyr Cys Ala Ser Trp Asp Asp Ser Leu Asn Gly Arg Val 225 230 235

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 872

<211> 256

<212> PRT

<213> Homo sapiens

<400> 872

Gln Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Lys Pro Gly Gly

1 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Ala 20 25 30

Trp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Gln Trp Val 35 40 45

Gly Arg Ile Lys Ser Lys Thr Asp Gly Gly Thr Thr Asp Tyr Ala Ala $50 \\ 0 \\ 55$

Pro Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr 65 70 75 80

Leu Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr 85 90 95

Tyr Cys Thr Thr Phe Asn Pro Thr Tyr Asp Ile Leu Thr Gly Tyr Tyr 100 105 110

Ile Gly Gly Tyr Phe Gln His Trp Gly Gln Gly Thr Met Val Thr Val 115 120 125

Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly 135 Ser Gln Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly 150 155 160 Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly 170 165 Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys 185 180 Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg 200 195 Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly 215 Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr 235 230 Arg Ser Thr Arg Val Phe Gly Gly Gly Thr Gln Leu Thr Val Leu Gly 250 245 <210> 873 <211> 254 <212> PRT <213> Homo sapiens <400> 873 Gln Val Gln Leu Gln Glu Ser Gly Ala Glu Val Lys Lys Ser Gly Glu 10 Ser Leu Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ile Phe Thr Asp Tyr 25 20 Trp Ile Gly Trp Val Arg Gln Thr Pro Gly Lys Gly Leu Glu Trp Met Gly Trp Ile Asn Pro Asn Asn Gly Gly Thr Lys Tyr Ala Gln Asn Phe 50 Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Val Ser Thr Ala Tyr 75 70 65 Met Glu Leu Ser Arg Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys

85 90 95

Ala Arg Glu Arg His Tyr Tyr Asp Ile Leu Thr Gly Tyr Gln Thr Gly 100 105 110

Tyr Gly Met Asp Val Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln $_{130}$ $_{135}$

Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser 145 150 155 160

Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn 165 170 175

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met 180 185 190

Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser $195 \\ 200 \\ 205$

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln 210 215 220

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser 225 230 235 240

Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 874

<211> 251 <212> PRT

<213> Homo sapiens

<400> 874

Gln Val Gin Leu Gin Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Lys Tyr Thr Phe Ala Asn His $20 \hspace{1cm} 25 \hspace{1cm} 30$

Tyr Ile His Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Met 35 40 45

Gly Asn Ile Asn Pro Ser Gly Ser Ser Thr Arg Tyr Ala Gln Arg Phe 55 Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr 70 75 . 80 Met Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85 90 Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 105 Asp Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 125 120 115 Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu 130 135 Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 150 145 Ser Cys Thr Gly Thr Ser Ser Asn Val Gly Gly Tyr Asn Tyr Val Ser 165 170 Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 205 200 Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 215 220 Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 875 <211> 251

<212> PRT

<213> Homo sapiens

<400> 875

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1022

10 15 5 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 25 Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 40 Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 55 Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 90 95 85 Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 105 1.00 Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu 135 130 140 Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 155 150 Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 170 165 Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 240

Phe Gly Gly Thr Lys Leu Thr Val Leu Gly

245 250

<210> 876

<211> 251 <212> PRT

<213> Homo sapiens

<400> 876

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Lys Tyr Thr Phe Ala Asn His $20 \\ 25 \\ 30$

Tyr Ile His Trp Val Arg Gin Ala Pro Gly Glu Gly Leu Glu Trp Met \$35\$

Gly Asn Ile Asn Pro Ser Gly Ser Ser Thr Arg Tyr Ala Gln Arg Phe 50 55 60

GIn Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr 65 70 75 80

Met Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys \$95\$

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe $100 \,$ $105 \,$ $110 \,$

Asp Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 $$ 150 $$ 155 $$ 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 \$170

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 230 235 240 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250 <210> -877 <211> 248 <212> PRT <213> Homo sapiens <400> 877 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 25 20 Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 40 35 Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 55 Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 75 7.0 Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 9.0 Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 105 Asp Ile Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 125 120 Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Ser Glu Leu Thr 130 140 Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr 150 155 145 Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln Gln

165 170 175

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg 180 185

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr $210 \hspace{1.5cm} 215 \hspace{1.5cm} 220 \hspace{1.5cm}$

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly 225 230 235

Gly Thr Lys Leu Thr Val Leu Gly

<210> 878

<211> 247

<212> PRT

<213> Homo sapiens

<400> 878 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Asn Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Gln Ala Ser Gly Gly Ser Phe Ser Arg Tyr 20 . 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met \$35\$

Gly Arg Ile Ile Pro Ile Val Ala Thr Pro Asn Tyr Ala Gln Arg Phe $50 \hspace{1cm} 55 \hspace{1cm} 60 \hspace{1cm}$

Gln Gly Arg Ile Thr Ile Ser Ala Asp Thr Leu Thr Ser Thr Ala Phe $65 707575$

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Asp Arg Glu Thr Lys Val Gly Tyr Gly Met Asp Val Trp Gly 100 105 110

Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly
115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Pro 130 140

Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly 145 \$150\$

Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr Gln Arg Leu $165 \hspace{1.5cm} 170 \hspace{1.5cm} 170 \hspace{1.5cm} 175 \hspace{1.5cm}$

Pro Gly Ala Ala Pro Gln Leu Leu Ile Tyr Asn Asn Asp Gln Arg Pro $180 \hspace{1cm} 185 \hspace{1cm} 190 \hspace{1cm}$

Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Gly $195 \hspace{1cm} 200 \hspace{1cm} 205 \hspace{1cm}$

Ser Leu Val Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr 210 215 220

Cys Ala Ser Trp Asp Asp Ser Pro Asn Gly Arg Val Phe Gly Gly Gly 225 230 235

Thr Lys Leu Thr Val Leu Gly 245

<210> 879

<211> 251 <212> PRT

<213> Homo sapiens

<400> 879

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 50 60

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 1027

85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe \$100\$

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 \$120\$

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150150155

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser $165 \\ 165$

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 $$185\ \ \, $$

Gly Ser Lys arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys \$195\$ 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Ile Leu Gly . 245 250

<210> 880

<211> 253 <212> PRT

<213> Homo sapiens .

<400> 880 Gin Val Gin Gin Ser Gly Ala Glu Val Lys Lys Pro Gly Gly Ser Leu 1 10 15

Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr Ser Met 20 25 30

Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser 35 40 45

Ile Ser Ser Ser Ser Tyr Ile Tyr Tyr Ala Asp Ser Val Lys Gly 55 Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln 70 75 ... 80 65 Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg 90 85 Glu Gly Gly Asn Tyr Asp Ile Leu Thr Gly Tyr Tyr Ile Gly Asn Gly 105 110 100 Ala Phe Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly 125 120 115 Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser 135 130 Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile 150 Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr 165 170 Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile 180 185 Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly 195 205 200 Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala

215 220 210

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr 235 225

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 881 <211> 254

<212> PRT

<213> Homo sapiens

<400> 881

Gly Val Gln Leu Val Gln Ser Gly Gly Gly Val Val Gln Pro Gly Arg 1029

1 5 10 15

Ser Leu Arg Val Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr 20 25 30

Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val \$35\$

Ala Val Leu Ser Tyr Asp Gly Asp Asn Lys Tyr Tyr Ala Asp Ser Val 50 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Cys $85 \hspace{1.5cm} 90 \hspace{1.5cm} 95$

Ala Arg Glu Gly Ser Tyr Asp Ile Leu Thr Gly Tyr Tyr Val Gly Val

Gly Arg Met Asp Val Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser 115 \$120\$ \$125\$

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln $_{130}$ $_{135}$

Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser 145 150 155 160

Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met

Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser 195 200 205

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln 210 215 220

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser 225 \$230\$

Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 1030

<210> 882 <211> 251

<212> PRT

245

<213> Homo sapiens

<400> 882 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 10

Ser Val Lys Val Ser Cys Lys Ala Ser Asp Tyr Leu Phe Thr Lys Tyr 2.0

Tyr Val His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 55

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 70

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 90 -85

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 105

Asp Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 125 120 11.5

Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu 135 140 130

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 150 155

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 170 165

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 185

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 200 195

235 240

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 225 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val

225 230 235

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

.

<210> 883 <211> 250

<212> PRT

<213> Homo sapiens

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Arg Ser Tyr 20 25 30

Ser Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val \$35\$

Ser Ser Ile Ser Ser Gly Gly Asn Ile Tyr Tyr Ala Asp Ser Val Arg 50 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr Leu $65 \\ 70 \\ 75 \\ 80$

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala $85 \hspace{1cm} 90 \hspace{1cm} 95$

Arg Asp Ser Tyr Asp Ile Leu Thr Gly Tyr Arg Gly Tyr Tyr Phe Asp 100 105 110

Tyr Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr 130 135

Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser 145 150 155 160

Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp
1032

. 165 170 175

Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly 180 \$180\$

Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser 195 200 205

Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu 210 215 220

Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe 225 230 235

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 884

<211> 251

<212> PRT <213> Homo sapiens

<213> NOMO Bapien

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe $50 \,$ $\, 60 \,$

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Val Tyr $_{65}$ $_{70}$ $_{70}$

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys $85 \hspace{1cm} 90 \hspace{1cm} 95$

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 . 105 - 110

Asp Ile Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 135 Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 150 155 - 160 Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 185 190 Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 200 195 Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 215 21:0 Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 230 225 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 <210> 885 <211> 253 <212> PRT <213> Homo sapiens <220> <221> Site <222> (214) <223> Xaa equals any of the naturally occurring L-amino acids <400> 885 Gln Val Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Gly Ser Leu 15 1 5 10 Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr Ser Met 20 25 30 Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser 35 40 45 Ile Ser Ser Ser Ser Tyr Ile Tyr Tyr Ala Asp Ser Val Lys Gly 50 55 60

Arg 65	Phe	Thr	Ile	Ser	Arg 70	Asp	Asn	Ala	Lys	Asn 75	Ser	Leu	Tyr	Leu	Gln 80	
Met	Asn	Ser	Leu	Arg 85	Ala	Glu	Asp	Thr	Ala 90	Val	Tyr	Tyr	Cys	Ala. 95	Arg	
Glu	Gly	Gly	Asn 100	Tyr	Asp	Ile	Leu	Thr 105	Gly	Tyr	Tyr	Ile	Gly 110	Asn	Gly	
Ala	Phé	Asp 115	Ile	Trp	Gly	Arg	Gly 120	Thr	Met	Val	Thr	Val 125	Ser	Ser	Gly	
Gly	Gly 130		Ser	Gly	Gly	Gly 135	Gly	Ser	Gly	Gly	Gly 140	Gly	Ser	Gln	Ser	
val 145		Thr	Gln	Pro	Ala 150	Ser	Val	Ser	Gly	Ser 155	Pro	Gly	Gln	Ser	Ile 160	
Thr	Ile	Ser	Cys	Thr 165		Thr	Ser	Seŗ	Asp 170	Val	Gly	Gly	Tyr	Asn 175	Tyr	
Val	Ser	Trp	Tyr 180	Gln	Gln	His	Pro	Gly 185	Lys	Ala	Pro	Lys	Leu 190	Met	Ile	
Tyr		Gly 195		Lys	Arg	Pro	Ser 200	Gly	Val	Ser	Asn	Arg 205	Phe	Ser	Gly	
Ser	Lys 210		G13	Asn	. Xaa	Ala 215	Ser	Leu	Thr	Ile	Ser 220	Gly	Leu	Gln	Ala	
Glu 225	Asp	Glu	Ala	a Asp	230	Tyr	Cys	Ser	Ser	Tyr 235	Thr	Thr	Arg	Şer	Thr 240	
Arg	y Val	L Phe	e Gly	/ Gly 245	Gly	Thr	Lys	Leu	250	· Val	. Lev	Gly				
<2: <2:	10> 4 11> 1 12> 1 13> 1	251 PRT	sap.	iens												
G1:	00> n Va 1	886 1 Gl:	n Le	u Gli	n Glr	ı Sei	Gl:	y Ala	a Glu	ı Val	L Lys	B Lys	Pro	Gl _y	r Ala	
Se	r Va	l Ly	s Va 2	1 Se:	r Cy:	s Ly:	s Al	2	r Gly		r Thi	c Phe	e Tha	Lys	Tyr	

Thr Met His Trp Val Arg Gin Ala Pro Gly Gln Gly Pro Glu Trp Met \$35\$

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 50 55 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys $85 \hspace{1cm} 90 \hspace{1cm} 95$

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 . 110

Asp Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 $^{\circ}$ 125

Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Gly Ser Gln Ser Val Leu 130 \$135\$

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 \$150\$

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser $165 \\ 170 \\ 175$

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu $180 \,$ $185 \,$ $190 \,$

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 887 <211> 251

<212> PRT <213> Homo sapiens

<400> 887 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 50 $\,\,$ 60 $\,\,$

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys $85 \ 90 \ -$ 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe $100 \\ 105 \\ 110$

Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 \$150\$

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys $195 \hspace{0.5cm} 200 \hspace{0.5cm} 205 \hspace{0.5cm} 205 \hspace{0.5cm}$

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 888

<211> 254 <212> PRT

<213> Homo sapiens

<400> 888

Gln Val Gln Leu Gln Glu Ser Gly Ala Glu Val Lys Lys Ser Gly Glu
1 10 15

Ser Leu Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ile Phe Thr Asp Tyr $20 \ 25 \ 30$

Trp Ile Gly Trp Val Arg Gln Thr Pro Gly Lys Gly Leu Glu Trp Met 35 40 45

Gly Trp Ile Asn Pro Asn Asn Gly Gly Thr Lys Tyr Ala Gln Asn Phe $50 \ \ 55 \ \ 60$

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Val Ser Thr Ala Tyr 65 70 75 80

Met Glu Leu Ser Arg Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Glu Arg His Tyr Tyr Asp Ile Leu Thr Gly Tyr Gln Thr Gly 100 105 110

Tyr Gly Met Asp Val Trp Gly Arg Gly Thr Met Val Trp Val Ser Ser 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln

Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser

Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn 165 170 175

Tyr Val Ser Trp Tyr His Gln His Pro Gly Lys Ala Pro Lys Leu Met 180 185 190

Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser 195 200 205

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Phe Arg Leu Gln 210 215 220

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser His Thr Thr Arg Ser 225 230 230 235

Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 889

<211> 251 <212> PRT

<213> Homo sapiens

<400> 889

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 10 15

Ser Val Thr Val Ser Cys Arg Ala Ser Gly Tyr Asn Phe Ile Thr Tyr 20 25 30

Gly Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met \$35\$

Gly Trp Ile Asn Pro Gly Ser Gly Asn Thr Gly Ser Ser Gln Lys Phe 50 60°

Asn His Arg Val Thr Ile Thr Arg Asp Thr Ser Ala Thr Thr Ala Tyr 65 70 75 80

Met Glu Met Arg Ser Leu Arg Ser Glu Asp Thr Ala Leu Tyr Tyr Cys $85 90$. 95

Asp Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val . 225 230 235

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 890

<211> 251

<212> PRT

<213> Homo sapiens

 $<\!400>890$ Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Met Ala Ser Gly Gly Ser Phe Asn His Ala \$20\$

Ile Ser Tro Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Tro Met Gly

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln $50 \ \ \, 55 \ \ \, 60$

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met $65 \\ 70 \\ 75 \\ 80$

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Glu Leu Gly Ser Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp $100 \hspace{1.5cm} 105 \hspace{1.5cm} 105 \hspace{1.5cm} 110 \hspace{1.5cm}$

Met Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Val 130 135

Ile Gln Glu Pro Ser Phe Ser Val Ser Pro Gly Gly Thr Val Thr Ile 145 150 155 160

Thr Cys Gly Leu Thr Ser Gly Ser Val Thr Thr Ser Tyr Tyr Pro Thr 165 170 175

Trp Tyr Gln Gln Ala Pro Gly Gln Ala Pro Arg Thr Leu Ile Tyr Ser 180 185

Thr Lys Ile Arg Ser Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Ile 195 200 205

Glu Ser Asp Tyr Tyr Cys Leu Leu Tyr Met Gly Ser Gly Thr Arg Val 225 230. 235 235

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 891 <211> 251 <212> PRT

<213> Homo sapiens

 $<\!400>$ 891 Val Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Phe Cys Met Ser Ser Gly Gly Ser Phe Asn His Ala 20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly $35 \ \ \ 40 \ \ \ \ 45$

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln $50 \ \ 55 \ \ 60$

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met 70 Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 90 Arg Glu Leu Gly Ser Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp 100 105 Met Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Ala Val Val 135 140 130 Ile Gln Glu Pro Ser Phe Ser Val Ser Pro Gly Gly Thr Val Thr Ile 155 145 150 Thr Cys Gly Leu Thr Ser Gly Ser Val Thr Thr Ser Tyr Tyr Pro Thr 165 170 Trp Tyr Gln Gln Ala Pro Gly Gln Ala Pro Arg Thr Leu Ile Tyr Ser 180 185 Thr Lys Ile Arg Ser Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Ile 200 Ile Gly Asn Lys Ala Ala Leu Thr Ile Thr Gly Ala Gln Ala Asp Asp 210 215 Glu Ser Asp Tyr Tyr Cys Leu Leu Tyr Met Gly Ser Gly Thr Arg Val 240 230 235 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 <210> 892 <211> 249 <212> PRT <213> Homo sapiens <400> 892 Gln Val His Leu Arg Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly 10

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr 20 25 30

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys \$85\$ 90 95

Ala Lys Asp Gly Tyr Tyr Asp Ile Leu Thr Gly Tyr Ser Tyr Tyr Gly $100 \\ 100 \\ 105$

Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly 115 $$120\$

Gly Gly Ser Gly Gly Gly Gly Gly Gly Gly Gly Ser Ser Glu Leu 130 135 140.

Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile 145 \$150\$

Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln \$165\$

Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys $180 \\ 185 \\ 190 \\$

Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn . 195 200

Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly 225 \$230\$

Gly Gly Thr Lys Leu Thr Val Leu Gly

<210> 893 <211> 248

<212> PRT <213> Homo sapiens

<400> 893 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met \$35\$

Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Phe $50 \\ 0 \\ 55$

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys \$95\$

Ala Arg Met Glu Tyr Asp Ile Leu Thr Gly Tyr Tyr Gly Gly Tyr Phe $100 \hspace{1.5cm} 105 \hspace{1.5cm} 105 \hspace{1.5cm} 110 \hspace{1.5cm}$

Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 \$120\$

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr 130 · 135

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr 145 150 155 160

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln 175 \$170\$

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn arg \$180\$

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Gly Asn Thr 195 200 205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr $210 \hspace{1.5cm} 215 \hspace{1.5cm} 220 \hspace{1.5cm}$

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly 225 230 235

Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 894

<211> 251 <212> PRT

<213> Homo sapiens

<400> 894

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala $20 \hspace{1cm} 25 \hspace{1cm} 30$

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln $_{\rm 50}$ 50 $_{\rm 60}$

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met $65 \\ 70 \\ 75 \\ 80$

Arg Glu Leu Gly Ser Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp $100 \\ 105 \\ 110$

Met Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Val 130 140

Ile Gln Glu Pro Ser Phe Ser Val Ser Pro Gly Gly Thr Val Thr Ile 145 150 155 160

Thr Cys Gly Leu Thr Ser Gly Ser Val Thr Thr Ser Tyr Tyr Pro Thr $165 \\ 170 \\ 175$

Trp Tyr Gln Gln Ala Pro Gly Gln Ala Pro Arg Thr Leu Ile Tyr Ser

Thr Lys Ile Arg Ser Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Ile
195 200 205

Ile Gly Asn Lys Ala Ala Leu Thr Ile Thr Gly Ala Gln Ala Asp Asp 210 220

Glu Ser Asp Tyr Tyr Cys Leu Leu Tyr Met Gly Ser Gly Thr Arg Val 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 895

<211> 248

<212> PRT <213> Homo sapiens

<400> 895

Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser Ser 1 5 10 15

Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr Ala 20 25 30

Phe Asn Trp Val Arg Arg Ala Pro Gly Gln Gly Leu Glu Trp Leu Gly 35 40 45

Ser Ile Val Pro Val Phe Asn Thr Lys Thr Phe Ala Arg Lys Phe Gln 50 60

Gly Arg Val Thr Leu Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr Leu $65 70 . 75 80 $

Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala 85 90. 95

Ser Arg Tyr Gly Asp Pro Phe Tyr Tyr Tyr Tyr Tyr Met Asn Val Trp $100 \\ 105$

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly 115 120 125

Gln Asp Pro Thr Val Ser Val Ala Leu Gly Gln Thr Val Ser Ile Thr 145 \$150\$

Cys Gln Glý Asp Ser Leu Arg Ser Tyr Tyr Ala Thr Trp Tyr Gln Gln 175 $175\,$

Lys Pro Gly Gln Ala Pro Leu Leu Val Leu Tyr Gly Asp Asn Lys Arg 180 185 190

Pro Ser Gly Ile Pro Gly Arg Phe Ser Gly Ser Thr Ser Gly Asn Thr 195 200 205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr 210 215 220

Tyr Cys Asn Ser Arg Asp Ser Ser Gly His Gln Trp Leu Phe Gly Gly 225 230 235

Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 896

<211> 249

<212> PRT <213> Homo sapiens

CZISP HOMO BUDION

<400> 896 Glu Val Asn Leu Arg Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg 1 10 15

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val \$35\$

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys \$85\$ 90 95

Ala Lys Asp Gly Tyr Tyr Asp Ile Leu Thr Gly Tyr Ser Tyr Tyr Gly 100 105

Met Asp Val Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ser Glu Leu 130 135 140

Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile 145 150 150 160

Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln 165 170 175

Gln Lys Pro Gly Gln Ala Pro Val Leu Val Val Tyr Ala Lys Asn Lys 180 185 190

Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn 195 200 205

Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp 210 215220

Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly 225 230 240

Gly Gly Thr Lys Leu Thr Val Leu Gly

<210> 897 <211> 252

<212> PRT

<213> Homo sapiens

<400> 897
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
1
5
10
15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala $20 \\ 25 \\ 30$

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly $35 \hspace{1cm} 40 \hspace{1cm} 45 \hspace{1cm}$

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 50 55 60

Gly 65		Val	Thr	Ile	Thr 70	Ala	Asp	Lys ·	Leu	Thr 75	Asn	Thr	Val	Tyr	Met 80
Asp	Leu	Ser	Arg	Leu 85	Arg	Tyr	Glu	Asp	Thr 90	Ala	Val	Tyr	Tyr	Cys 95	Ala
Arg	Glu	Leu	Gly 100	Leu	Ser	Ile	Val	G1y 105	Ala	Thr	Thr	Gly	Ala 110	Leu	Asp
Met	Trp	Gly 115		Gly	Thr	Leu	Val 120	Thr	Váĺ	Ser	Ser	Gly 125	Gly	G1y	Gly
Ser	Gly 130		Gly	Gly	Ser	Gly 135	Gly	Gly	Gly	Ser	Ala 140	Leu	Ser	Tyr	Val
Leu 145		Gln	Pro	Pro	Ser 150	Ala	Ser	Gly	Thr	Pro 155	G1ÿ	Gln	Arg	Val	Thr 160
Ile	Ser	Cya	Ser	Gly 165		Ser	Ser	Asn	Ile 170	Gly	Asn	Asn	Tyr	Val 175	Phe
Trp	Tyr	Gln	G1n 180	Leu	Pro	Gly	Ala	185	Pro	Lys	Leu	Leu	Ile 190	Tyr	Arg
Asr	Ser	G1r 195		Pro	Ser	Gly	Val 200	Pro	Asp	Arg	Phe	Ser 205	Gly	Ser	Thr
Ser	Gl ₂		: Sei	Ala	Ser	Leu 215		Ile	Ser	Gly	Leu 220	Arg	Ser	Glu	Asp
Gl: 225		a Ası	Ty:	. Tyr	Cys 230	Ala	Ala	Arg	Asp	Asp 235	Ser	Let	ı Arg	G13	Pro 240
Va.	l Phe	e G1:	y Gly	7 Gly 245		: Lys	. Lev	Tha	Val 250	L Lev	. Gly	7			
<2 <2	<210> 898 <211> 252 <212> PRT <213> Homo sapiens														
<4 Gl	00> u Va	898 1 Gl	n Le		l Gli	n Se	r Gl	/ Ala	a Gli	u Vai	l Lys	s Ly:	s Pro	G1:	y Ser

Ser Val Lys Val Ser Cys Gln Ala Ser Gly Gly Asn Phe Asn Ser Tyr $20 \\ 25 \\ 30$

Gly Val Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met $35 \ \ \, 40 \ \ \, 45$

- Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Ser Thr Val Tyr 65 70 75 80
- Leu Glu Val Arg Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys $85 \hspace{1cm} 90 \hspace{1cm} 95$
- Ala Arg Gly Asp Tyr Asp Ile Leu Thr Gly Tyr Pro Ala Glu Cys Phe
 100 105 110
- Gln Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 \$120\$
- Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val
- Leu Thr Gln Pro Ser Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr 145 \$150\$

- Asn His Leu Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys \$195\$
- Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp 210 215 220
- Glu Ala Asp Tyr Tyr Cys Ser Ala Arg Asp Asp Ser Leu Asn Gly Val 225 230 235
- Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly 245 250

<210> 899 <211> 250

<212> PRT <213> Homo sapiens

<400> 899 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 1 5 10 15

Ser Val Lys Val Ser Cys Gln Ala Ser Gly Gly Asn Phe Asn Ser Tyr

Gly Val Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met $35 \ \ \, 40 \ \ \, 45$

Gly Arg Ile Ile Pro Asn Val Gly Thr Ala Asn Tyr Ala Gln Lys Phe 50 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Ser Thr Val Tyr $65 \hspace{1.5cm} 70 \hspace{1.5cm} 75 \hspace{1.5cm} 80$

Ala Arg Gly Asp Tyr Asp Ile Leu Thr Gly Tyr Pro Ala Glu Cys Phe $100 \hspace{1.5cm} 105 \hspace{1.5cm} 110 \hspace{1.5cm}$

Gln Ile Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 $^{\circ}$ 125 $^{\circ}$ 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Leu Pro Val 130 135 140

Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln Thr Ala Thr 145 150 150 160

Ile Thr Cys Ser Gly Asp Glu Leu Gly Arg Lys Tyr Val Ser Trp Tyr $165 \\ 170 \\ 175 \\ 175$

Gln Gln Lys Pro Gly Gln Ser Pro Leu Leu Val Ile Tyr Gln Asp Ser $180 \ \ 185 \ \ \ 190 \ \ \$

Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Ala Ser Asn Ser Gly 195 200

Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Pro Met Asp Glu Ala 210 \$215\$

Asp Tyr Tyr Cys Gln Ala Arg Asp Thr Thr Thr Ala Phe Ser Val Phe 225 230 235

Gly Thr Gly Thr Lys Val Thr Val Leu Gly 245

<210> 900

<211> 248 <212> PRT

<213> Homo sapiens

<400> 900

His Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 10 15

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met \$35\$

Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Phe 50

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr $_{65}$ $_{70}$ $_{75}$ $_{80}$

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Met Glu Tyr Asp Ile Leu Thr Gly Tyr Tyr Gly Gly Tyr Phe 100 105 110

Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr 145 150 155 160

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln 165 170 175

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg $180 \ \ 185 \ \ \ 190$

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr $195 \hspace{1cm} 200 \hspace{1cm} 205 \hspace{1cm}$

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr 210 215 220

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly 225 230 235

Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 901

<211> 250

<212> PRT <213> Homo sapiens

<400> 901

His Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10

Ser Val Lys Val Ser Cys Lys Ser Ser Gly Gly Thr Phe Ser Ser Tyr $20 \ \ 25 \ \ 30$

Ala Phe Asn Trp Val Arg Arg Ala Pro Gly Gln Gly Leu Glu Trp Leu 35 40 45

Gly Ser Ile Val Pro Val Phe Asn Thr Lys Thr Phe Ala Arg Lys Phe 50 60

Gln Gly Arg Val Thr Leu Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr 65 70 75 80

Leu Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys \$85\$

Ala Ser Arg Tyr Gly Asp Pro Phe Tyr Tyr Tyr Tyr Tyr Met Asn Val $100 \ \ 105 \ \ \ 110$

Trp Gly ${\rm Arg}$ Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Leu Thr 130 140

Gln 1 145	Pro	Pro	Ser	Ala	Ser 150	Gly	Thr	Pro	Gly	Gln 155	Arg	Val	Thr	Ile	Ser 160
Cys :	Ser	Gly	Ser	Arg 165	Ser	Ser	Ile	Gly	Ser 170	Asn	Thr	Val	Asn	Trp 175	Tyr
Gln	Gln	Phe	Pro 180	Gly	Thr	Ala	Pro	Lys 185	Leu	Leu	Ile	Tyr	Gly 190	Asp	Asp
Gln .	Arg	Pro 195	Ser	Gly	Val	Pro	Asp 200	Arg	Phe	Ser	Gly	Ser 205	Lys	Ser	Gly
	Ser 210	Ala	Ser	Leu	Ala	Ile 215		Gly	Leu	Gln	Ser 220	Glu	Asp	Glu	Ala
Asp 225	Tyr	His	Cys	Ala	Ala 230	Trp	Asp	Asp	Ser	Leu 235	Ser	Gly	Tyr	Val	Phe 240
Gly.	Thr	Gly	Thr	Lys 245		Thr	Val	Leu	Gly 250						
<210> 902 <211> 253 <212> PKT <213> Homo sapiens															
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<220>															
221> Site 222> (203) 223 Aga equals any of the naturally occurring L-amino acids															
<22	3 > X	aa e	egua:	ls ar	ıy oi	the	nat	ura	Lly	occur	rring	r L−a	mino	acı	ds
<40 Gln 1		02 . Gli	n Le		l Gli 5	ı Sei	c Gly	/ Ala	a Glu	ı Val	l Lys	Lys	Pro	Gly 15	Ser
Ser	Va]	. Ly:	s Va 2		r Cy	s Glı	n Ala	a Se:	r Gly	y Gly	y Asr	ı Phe	a Asr	ı Ser	Tyr
Gly	Va.	L Se 3	r Tr 5	p Va	1 Ar	g Gl	n Al	a Pr	o Gl	y Gli	n Gly	7 Le:	ı Glu 5	ı Trp	Met
Gly		g Il	e Il	e Pr	o As	n Va 5	1 G1:	y Th	r Th	r As	n Ty:	r Al	a Gli	ı Lys	s Phe

Gln 65	Gly	Arg	Val	Thr	Ile '	Thr	Ala	Asp	Lys	Leu 75	Thr	Ser	Thr	Val	Tyr 80
Leu	Glu	Val	Arg	Arg 85	Leu	Arg	Ser	Glu	Asp 90	Thr	Ala	Val	Tyr	Tyr 95	Cys
Ala	Arg	Gly	Asp 100	Tyr	Asp	Ile	Leu	Thr 105	Gly	Tyr	Pro	Ala	Glu 110	Cys	Phe
Gln	Ile	Trp 115	Gly	Lys	Gly	Thr	Met 120	Val	Thr	Val	Ser	Ser 125	Gly	Gly	Gly
Gly	Ser 130	Gly	Gly	Gly	Gly	Ser 135	Gly	Gly	Gly	Gly	Ser 140	Ala	Gl'n	Ala	Val
Leu 145		Gln	Pro	Ser	Ser 150	Ala	Ser	Gly	Thr	Pro 155	Gly	Gln	Arg	Val	Thr 160
Ile	Ser	Cys	Ser	Gly 165		Ser	Ser	Asn	Ile 170	Gly	Gly	Asn	Ser	Val	Ser
Trp	Tyr	Glr	His	Leu	Pro	Gly	Thr	Ala 185	Pro	Lys	Leu	Leu	11e	Tyr	Ser
Asn	Asr	Arg		Pro	Ser	Xaa	Val	Pro	Asr	Xaa	Phe	Ser 205	Gl _y	Ser	Lys
Ser	Gly		r Sei	: Ala	Ser	Leu 215	Ala	Ile	Sea	: Gly	Leu 220	Glr	ser	: Gly	/ Asp
Gl: 225	ı Ala	a Asj	o Tyi	с Тут	Cys 230	Ala	Thr	Tr	Ası	235	Ser	Let	ı Ası	n Gly	Arg 240
Va:	l Va	l Ph	e Gl	y Gly 245	gly	Thi	Gli	ı Le	25	r Val	l Lei	ı Se:	r		
<2 <2	10> 11> 12> 13>	251	sap	iens											
G1	00> u Va 1	903 .1 G1	n Le		l Gli 5	n Se:	r Gl	y Al	a Gl 1	u Va 0	l Ly	s Ly	s Pr	o Gl 1	y Ser 5

Ser Val Lys Val Ser Cys Arg Ala Tyr Gly Gly Ser Phe Asn His Ala $20 \ \ 25 \ \ 30$

Ile Ser Trp Val Arg Gln Ala Fro Gly Arg Gly Leu Glu Trp Met Gly $$35\ \cdot\ $40$$

- Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 50 60
- Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met 65 . 70 75
- Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95
- Arg Glu Leu Gly Ser Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp $100 \hspace{1.5cm} 100 \hspace{1.5cm} 105 \hspace{1.5cm} 110 \hspace{1.5cm}$
- Met Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125 .
- Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Val 130 135 140
- Ile Gln Glu Pro Ser Phe Ser Val Ser Pro Gly Gly Thr Val Thr Ile 145 150 160
- Thr Cys Gly Leu Thr Ser Gly Ser Val Thr Thr Ser Tyr Tyr Pro Thr 165 $$ 170 $$ 175
- Trp Tyr Gln Gln Ala Pro Gly Gln Ala Pro Arg Thr Leu Ile Tyr Ser \$180\$
- Thr Lys Ile Arg Ser Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Ile 195 200 205
- Ile Gly Asn Lys Ala Ala Leu Thr Ile Thr Gly Ala Gln Ala Asp Asp 210 215 220
- Glu Ser Asp Tyr Tyr Cys Leu Leu Tyr Met Gly Ser Gly Thr Arg Val 225 230 235
- Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 904 <211> 251

<212> PRT <213> Homo sapiens

<400> 904 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 . 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr 20 25 30

Ala Phe Asn Trp Val Arg Arg Ala Pro Gly Gln Gly Leu Glu Trp Leu $35 \hspace{1cm} 40 \hspace{1cm} 45$

Gly Ser Ile Val Pro Val Phe Asn Thr Lys Thr Phe Ala Arg Lys Phe 50 60

Gln Gly Arg Val Thr Leu Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr $65 \hspace{1.5cm} 70 \hspace{1.5cm} 75 \hspace{1.5cm} 80$

Leu Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys \$85\$ 90 95

Ala Ser Arg Tyr Gly Asp Pro Phe Tyr Tyr Tyr Tyr Tyr Met Asn Val 100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Leu Thr 130 135 140

Gln Pro Ser Ser Val Ser Gly Ala Pro Gly Gln Arg Val Thr Ile Ser 145 \$150\$

Cys Thr Gly Ser Ser Ser Asn Ile Gly Ala Gly Tyr Asp Val His Trp \$165\$

Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Gly Asn $180 \hspace{1cm} 180 \hspace{1cm} 185 \hspace{1cm}$

Ser Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser 195 200 205

Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln Ala Glu Asp Glu 210 215 220

Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser Leu Ser Gly Trp Val 225 230 230 235

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 905

<211> 254 <212> PRT

<213> Homo sapiens

<400> 905

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala $1 \\ 0 \\ 15$

Ser Val Lys Val Ser Cys Glu Ala Ser Ala Glu Leu Phe Ala Ser Ser $20 \\ 25 \\ 30$

Asp Ile Asn Trp Val Arg Gln Ala Thr Gly Gln Gly Leu Glu Trp Met $35 \ \ 40 \ \ 45$

Gly Trp Val Asn Pro Ser Ser Gly Asn Ala Gly Tyr Ala Glu Lys Phe
50 55 60

Glu Gly Arg Val Ile Met Thr Thr Asn Ile Pro Lys Lys Thr Val Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Gly Thr Gly Tyr Asp Ile Leu Thr Gly Tyr Tyr Met Gly Ser $100 \\ 105 \\ 110$

Ala Phe Asp Gln Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu 130 135 140

Glu Ile Val Met Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly 145 150 150 160

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Ile Arg Ser Asn \$165\$ \$170\$ \$175\$

Ile Tyr Asp Val Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser 195 200 205

- Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu 210 215 220
- Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Glu Tyr Gly Phe Ser Leu 225 230 235 240
- Pro Asn Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys Arg 245 250
- <210> 906
- <211> 255 <212> PRT
- <213> Homo sapiens
- <400> 906
- Glu Val Gln Leu Val Gln Ser Gly Ala Asp Val Lys Lys Pro Gly Ala 1 10 15
- Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Asn Phe Met Asn Tyr 20 25 30
- Asp Ile Asn Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Met 35 40 45
- Gly Trp Met Asn Pro Lys Ser Gly Lys Thr Asp Ser Ala Glu Lys Phe $_{\mbox{50}}$
- Glu Gly Arg Val Thr Met Thr Thr Asp Thr Ser Arg Asp Thr Val Tyr $_{65}$ $_{70}$ $_{70}$ $_{80}$
- Met Glu Leu Ser Arg Leu Arg Ser Asp Asp Thr Ala Val Tyr Phe Cys \$85\$
- Ala Arg Gly Ser Gly Tyr Asp Leu Leu Thr Gly Tyr Phe Thr Gly Ser $100 \ \ 105$
- Pro Leu Asp Tyr Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly
- Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln 130 135 140

Ser ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser 145 \$155\$

Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Ala Asn Asn 165 \$170\$

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met 180 185

Ile Phe Asp Val Tyr Thr Arg Pro Ser Gly Val Ala Ser Arg Phe Ser $195 \hspace{1.5cm} 200 \hspace{1.5cm} 205 \hspace{1.5cm}$

Gly Ser Lys Ser Ala Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln
210 220

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Ser Thr Asn Thr 225 230 235

Met Ser His Val Phe Gly Thr Gly Thr Lys Leu Thr Val Leu Gly 245 250 255

<210> 907

<211> 256

<212> PRT

<213> Homo sapiens

<400> 907

Glu Val Gln Leu Val Glu Thr Gly Gly Gly Val Val Gln Pro Gly Gly

1 10 15

Ser Leu Arg Leu Ser Cys Val Gly Ser Gly Phe Thr Phe Ser Ser Tyr 20 25 30

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Met $35 \hspace{1cm} 40 \hspace{1cm} 45$

Gln Gly Arg Leu Thr Ile Ser Arg Asp Asn Phe Val Lys Thr Leu Ser 65 70 75 80

Leu Glu Met His Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys $85 \hspace{1cm} 90 \hspace{1cm} 95$

Ala Lys Asp Arg Gly Gly Asn Tyr Asp Ile Leu Thr Gly Tyr Tyr Phe 100 105 110

His His Gly Val Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser 115 $$120\$

Ala Gln Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly 145 150150155

Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Arg $^{\circ}$ $_{165}$ $^{\circ}$ $_{170}$ $^{\circ}$ $^{\circ}$ 175

Tyr Asn Tyr Val Ser Trp Tyr Arg Gln Tyr Pro Gly Glu Ala Pro Lys 180 185 190

Leu Met Ile Tyr Gly Val Ile Asn Arg Pro Ser Gly Val Ser Ser Arg 195 200 205

Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly 210 220

Leu Gln Ala Glu Asp Glu Ala Asp Tyr Phe Cys Ser Ser Tyr Ala Gly 225 230 235

Arg Ser Thr Tyr Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly . 245 250 255

<210> 908

<211> 251

<212> PRT

<213> Homo sapiens

<400> 908

Gln Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln Pro Gly Gly 1 5 10 15

Pro Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr $20 \ \ 25 \ \ 30$

Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 . 45

Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Ala Asp Ser Val

Lys 65	Gly	Arg	Phe	Thr	Ile 70	Ser	Arg	Asp	Asn	Ser 75	Lys	Asn	Thr	Leu	Tyr 80
Leu	Gln	Met	Asn	Ser 85	Leu	Arg	Ala	Glu	Asp 90	Thr	Ala	Val	Tyr	Tyr 95	Cys
Ala	Arg	Asp	Ala 100	Gln	Ser	Tyr	Tyr	Asp 105	Ile	Leu	Thr	Gly	Tyr 110	Gln	Ser
Tyr	Ala	Phe 115	Asp	Ile	Trp	Gly	Arg 120	Gly	Thr	Thr	Val	Thr 125	Val	Ser	Ser
Gly	Gly 130	Gly	Gly	Ser	Gly	Gly 135	Gly	Gly	Ser	Gly	Gly 140	Gly	Gly	Ser	Ser
Glu 145	Leu	Thr	Gln	Asp	Pro 150	Ala	Val	Ser	Val	Ala 155	Leu	Gly	Gln	Thr	Val 160
Arg	Ile	Thr	Cys	Gln 165	Gly	Asp	Ser		Arg 170	Ser	Tyr	Tyr	Thr	Asn 175	Trp
Phe	Gln	Gln	Lys 180	Pro	Gly	Gln	Ala	Pro 185	Leu	Leu	Val	Val	Tyr 190	Ala	Lys
Asn	Lys	Arg 195		Ser	Gly	Ile	Pro 200	Asp	Arg	Phe	Ser	Gly 205	Ser	Ser	Ser
Gly	Asn 210		Ala	Ser	Leu	Thr 215		Thr	Gly	Ala	Gln 220	Ala	Glu	Asp	Glu
Ala 225		Tyr	Tyr	Сув	His 230		Arg	Asp	Ser	Ser 235	Gly	Asn	His	Val	Leu 240
Phe	Gly	Gly	Gly	Thr 245		Leu	Thr	Val	Leu 250	Gly					

<210> 909

<211> 253 <212> PRT

<213> Homo sapiens

 $<\!400>909$ Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Pro Val Arg Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Thr Arg Tyr $20 \\ 25 \\ 30$

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40 45

Gly Arg Ile Ile Pro Ile Leu Gly Ile Ala Asn Tyr Ala Gln Lys Phe 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Ser Thr Val Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys $85 \hspace{1cm} 90 \hspace{1cm} 95$

Ala Arg Asp Asn Tyr Asp Ile Leu Thr Gly Tyr Ser Arg Arg Phe Asp $100 \hspace{1cm} 105 \hspace{1cm} 110 \hspace{1cm}$

Pro Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Asn Phe Met 130 . 135 140

Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys Thr Val Thr 145 150 155 160

Ile Ser Cys Thr Arg Ser Ser Gly Asn Ile Ala Ser Lys Tyr Val Gln \$165\$

Trp Tyr Gln Gln Arg Pro Gly Ser Ala Pro Thr Thr Val Ile Tyr Glu $180 \,$ $\,$ 185 $\,$ $\,$ $\,$ 190 $\,$

Asn Asn Arg Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Ile $195 \hspace{1cm} 200 \hspace{1cm} 205$

Asp Ser Ser Ser Asn Ser Ala Ser Leu Thr Ile Ser Gly Leu Lys Thr 210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Thr Ser Ala Leu 225 230 235 240

Tyr Val Phe Gly Thr Gly Thr Lys Leu Thr Val Leu Gly $245 \hspace{1cm} 250 \hspace{1cm}$

<210> 910 <211> 251

<212> PRT <213> Homo sapiens

Ser Val Lys Val Ser Cys Arg Ser Ser Gly Gly Ser Phe Asn His Ala

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 50 $$ 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met 65 70 75 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Glu Leu Gly Ser Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp $100 \,$

Met Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Val 130 135

Ile Gln Glu Pro Ser Phe Ser Val Ser Pro Gly Gly Thr Val Thr Ile 145 \$150\$

Thr Cys Gly Leu Thr Ser Gly Ser Val Thr Thr Ser Tyr Tyr Pro Thr 165 \$170

Trp Tyr Gln Gln Ala Pro Gly Gln Ala Pro Arg Thr Leu Ile Tyr Ser \$180\$

Thr Lys Ile Arg Ser Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Ile 195 200 205

Ile Gly Asn Lys Ala Ala Leu Thr Ile Thr Gly Ala Gln Ala Asp Asp 210 215 220

Glu Ser Asp Tyr Tyr Cys Leu Leu Tyr Met Gly Ser Gly Thr Arg Val 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 911

<211> 249 <212> PRT

<213> Homo sapiens

<400> 911

Asp Val Asn Leu Arg Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr \$20\$

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys $85 \hspace{0.5cm} 90 \hspace{0.5cm} 95$

Ala Lys Asp Gly Tyr Tyr Asp Ile Leu Thr Gly Tyr Ser Tyr Tyr Gly $100 \\ 105 \\ 110$

Met Asp Val Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ser Glu Leu 130 135 140

Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile $145 \,$ $150 \,$ $155 \,$ $160 \,$

Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Fhe Gln \$165\$

Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys As
n Lys 180 \$180\$

Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn 195 200

Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp

Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly 225 230 230

Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 912

<211> 249

<212> PRT <213> Homo sapiens

<400> 912

Lys Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr $20 \hspace{1cm} 25 \hspace{1cm} 30 \hspace{1cm}$

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val \$35\$

Ala Leu Ile Trp Tyr Asp Gly Ser Lys Lys Tyr Tyr Ala Asp Ser Val $50 \ \cdot \ \cdot \ 00$

Lys Gly Arg Phe Thr Val Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr $65 \ 70 \ 75 \ 80$

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Ser His Tyr Asp Ile Leu Thr Gly Leu Asn Tyr Trp Tyr Phe $100 \ \ 105 \ \ \ 110$

Asp Leu Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr $_{130}$

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr 145 150 155 160

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln 165 $$170\$

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg 180 185 190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr 195 200 205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr $210 \hspace{1cm} 215 \hspace{1cm} 220 \hspace{1cm}$

Tyr Cys Asn Ser Arg Asp Ser Ser Ser Thr His Arg Gly Val Phe Gly 225 230 235 240

Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 913

<211> 248

<212> PRT

<213> Homo sapiens

<400> 913

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Phe Gly Phe Thr Phe Ser Ser Tyr 20 25 30

Ser Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ser Ser Ile Ser Asn Arg Gly Ser Tyr Ile Tyr Tyr Ala Asp Ser Val

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Glu Gly Arg Asp Ile Leu Thr Gly Val Tyr Tyr Gly Leu $100 \ \ 105 \ \ 110$

Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr 130 135 140

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr 145 \$150\$

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln 165 . 170 175

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg 180 . . . 185 . . . 190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr 195 200 205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr 210 215 220

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly 225 230 235

Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 914 <211> 248

<211> 248 <212> PRT

<213> Homo sapiens

<400> 914

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Val Asn Ser Tyr $20 \ \ 25 \ \ 30$

Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Gln Trp Val 35 40 45

Ala Val Ile Ser Tyr Asp Gly Ser Lys Lys Tyr Tyr Ala Asp Ser Val 50 60'

Lys Gly Arg Phe Thr Val Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys $$85\ 90\]$

Ala Arg Ser His Tyr Asp Ile Leu Thr Gly Leu Asn Tyr Trp Tyr Phe 100 105 110

Asp Leu Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ser Glu Leu Thr $130 \,$

Gin Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg I1e Thr 145 150 155 160

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg $\,\cdot\,$ 180 $\,$ 185 $\,$ 190 $\,$

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Gly Asn Thr

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr 210 215 220

Tyr Cys Asn Ser Arg Gly Ser Ser Gly Asn His Val Val Phe Gly Gly 225 230235235

Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 915

<211> 247 · <212> PRT

<213> Homo sapiens

<400> 915

Gln Val Gln Leu Val Gln Ser Gly Gly Gly Leu Ile Gln Pro Gly Gly
1 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Val Ser Ser Asn 20 25 30

Tyr Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val

Ser Val Val Tyr Ala Asp Gly Arg Thr Tyr Tyr Ala Asp Ser Val Lys 50

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Arg Asn Thr Leu Tyr Leu $65 7075$

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Thr Tyr Tyr Asp Ile Leu Thr Gly Arg Phe Phe Asp Ile Trp Gly $100 \\ 100 \\ 110$

Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala 130 135 140

Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly 145 $$ 150 $$ 155 $$ 160

Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln 165 \$170\$

His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg 180 185 , 190

Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr 195 200 205

Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr 210 215 220

Tyr Cys Ser Ser Tyr Thr Thr Lys Ser Thr Arg Val Phe Gly Gly Gly 225 230 235 240

Thr Lys Leu Thr Val Leu Gly . 245

<210> 916 <211> 248

<212> PRT <213> Homo sapiens

<400> 916
Asp Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Gly
10
15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Val Asn Ser Tyr 20 25 30

Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Gln Trp Val 35 40 45

Ala Val Ile Ser Tyr Asp Gly Ser Lys Lys Tyr Tyr Ala Asp Ser Val

Lys Gly Arg Phe Thr Val Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp.Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Ser His Tyr Asp Ile Leu Thr Gly Leu Asn Tyr Trp Tyr Phe 100 105 110

Asp Leu Trp Gly Arg Gly Thr Thr Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr 145 150 155

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln 165 $$170\$

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg 185 190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Gly Asn Thr 195 200 205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr 210 220

Lys Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly 225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly

<210> 917

<211> 251 <212> PRT

<213> Homo sapiens

<400> 917

Val Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg 1 5 10 15

Ser Leu Arg Leu Phe Cys Ala Val Ser Gly Phe Thr Phe Ser Ser Tyr 20 25 30

Ala Met Thr Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Val \$35\$

Ala Thr Ile Ser Asp Ser Ala Asp Arg Lys Tyr Tyr Ala Asp Ser Val $50 \\ 55 \\ 60$

Lys Gly Arg Phe Thr Ile Phe Arg Asp Asn Ser Arg Asn Met Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Asp Leu Arg Tyr Asp Ile Leu Thr Gly Tyr His Asp Ala Phe 100 . $$. 105 $$ 110

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 \$120\$

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 \$135\$

Thr Gln Pro Pro Ser Ala Ser Gly Ser Pro Gly Gln Ser Val Thr Ile 145 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser . 165 170 170

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Phe Met Ile Tyr Asp 180 185 190

Val Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Val Gln Ala Glu Asp 215 210

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Ser Ala Ser Thr Val Ile 230 225

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 918

<211> 249

<212> PRT

<213> Homo sapiens

<400> 918

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 15 1 5 1.0

Ser Val Lys Val Ser Cys Lys Val Thr Gly Tyr Thr Phe Arg Thr Ser 20 25

Gly Ile Thr Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40

Gly Ile Ile Asn Pro Ser Gly Gly Ser Thr Asn Tyr Ala Gln Lys Phe 55

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys . 85 90 95

Ala Arg Gly Ala Tyr Tyr Asp Ile Leu Thr Gly Tyr Tyr Pro Tyr Gly 100 105 110

Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly 120 125

Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Asp Ile Gln 130 135 140

Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Ile Gly Asp Arg Val

Thr Ile Thr Cys Arg Ala Ser Glu Gly Ile Tyr His Trp Leu Ala Trp 165 170 175

Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Lys Ala \$180\$

Ser Ser Leu Ala Ser Gly Ala Pro Ser Arg Phe Ser Gly Ser Gly Ser 195 200 205

Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Asp Asp Phe 210 215 220

Ala Thr Tyr Tyr Cys Gln Gln Tyr Ser Asn Tyr Pro Leu Thr Phe Gly 225 230 235

Gly Gly Thr Lys Leu Glu Ile Lys Arg 245

<210> 919

<211> 249

<212> PRT

<213> Homo sapiens

<400> 919

Gln Val Gln Leu Leu Gln Ser Ala Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Val Ser Gly Gly Thr Phe Ser Ser Tyr $20 \\ 25 \\ 30$

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met $35 \ \ 40 \ \ 45$

Gly Trp Met Asn Pro Asn Ser Gly Asn Thr Gly Tyr Ala Gln Lys Phe $50 \hspace{1cm} 55 \hspace{1cm} 60 \hspace{1cm}$

Gln Gly Arg Val Thr Met Thr Arg Asn Thr Ser Ile Ser Thr Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Gly Thr Tyr Tyr Asp Ile Leu Thr Gly Tyr Phe His Tyr Gly
100 105 110

Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser Gly Gly

Gly Gly Ser Gly Gly Gly Gly Gly Gly Gly Gly Ser Asp Val Val

Met Thr Gln Ser Pro Ser Ser Val Ser Ala Ser Val Gly Asp Arg Val 145 150 150 155 160

Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Ser Tyr Leu Ala Trp \$165\$ \$170\$ \$175\$

Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Lys Ala 180 185 190

Ser Ser Leu Ala Ser Gly Ala Pro Ser Arg Phe Ser Gly Ser Gly Ser 195 200 205

Ala Thr Tyr Tyr Cys Gln Gln Tyr Ser Asn Tyr Pro Leu Thr Phe Gly 225 230 235

Gly Gly Thr Lys Leu Glu Ile Lys Arg 245

<210> 920

<211> 248

<212> PRT

<213> Homo sapiens

<400> 920

Gln Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln Pro Gly Arg 1 5 10 15

Ser Leu Arg Leu Ser Cys Thr Ala Ser Gly Phe Asn Phe Gly Asp Tyr \$20\$

Ala Met Gly Trp Val Arg Gln Val Pro Gly Lys Gly Leu Glu Trp Val $35 \ \ \, 40 \ \ \, 45$

Ala Ala Thr Ser Tyr Asn Gly Ser Lys Lys Tyr Tyr Ala Asp Ser Val $_{\mbox{50}}$

Lys Gly Arg Phe Thr Val Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys $85 \ 90 \ 95$

Ala Arg Ser His Tyr Asp Ile Leu Thr Gly Leu Asn Tyr Trp Tyr Phe 100 105 110

Asp Leu Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr $130 \hspace{1.5cm} 135 \hspace{1.5cm} 140 \hspace{1.5cm}$

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr 145 \$150\$

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Gln 165 $$170\$

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Gly Asn Thr 195 200 205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr $210 \\ \hspace*{1.5cm} 215 \\ \hspace*{1.5cm} 220 \\ \hspace*{1.5cm} .$

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly 225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly

<210> 921

<211> 248

<212> PRT

<213> Homo sapiens

<400> 921

Gln Val Gln Leu Val Gln Ser Gly Gly Gly Val Val Gln Pro Gly Gly 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr $20 \hspace{1cm} 25 \hspace{1cm} 30 \hspace{1cm} \cdot \hspace{1cm}$

Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val \$35\$

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys $85 \hspace{1cm} 90 \hspace{1cm} 95$

Ala Arg Asp Gln His Asp Ile Leu Thr Gly Val Tyr Tyr Gly Met Asp 100 105 110

Val Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Leu Thr Gln Asp Fro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg 145 150 155 160

Ile Thr Cys Gln Gly Asp Gly Leu Arg Asn Tyr Tyr Ala Asn Trp Tyr 165 170 175

Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly 195 200 205

Val Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Ala Val Phe Gly Gly 225 230235235

Gly Thr Lys Leu Thr Val Leu Gly

<210> 922 <211> 251

<212> PRT <213> Homo sapiens

<400> 922

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn Phe Asn Asp Tyr
20 25 30

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ser Gly Ile-Ser Trp Asn Ser Gly Thr Ile Gly Tyr Ala Glu Ser Val 50 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Ser 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys $$85\ \ 90\ \ \ 95$

Ala Arg Val Ser Pro Ser Tyr Asp Ile Leu Thr Gly Tyr Tyr Leu Pro 100 105 110

His Ala Phe Asp Val Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Gly Gly Gly Ser Asp \$130\$

Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr 180 185 190

Lys Ala Ser Ser Leu Ala Ser Gly Ala Pro Ser Arg Phe Ser Gly Ser 195 200 205

Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Asp 210 215 220

Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Ser Asn Tyr Pro Leu Thr 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys Arg

<210> 923

<211> 247

<212> PRT <213> Homo sapiens

<400> 923

Gln Val Gln Leu Val Gln Ser Gly Gly Gly Leu Ile Gln Pro Gly Gly 1 5 10 15

Ser Leu Arg Leu Phe Cys Ala Ala Ser Gly Phe Thr Val Ser Ser Asn 20 25 30

Tyr Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val

Ser Val Val Tyr Ala Asp Gly Arg Thr Tyr Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Arg Asn Thr Leu Tyr Leu 65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala . $85 \hspace{1cm} 90 \hspace{1cm} 95$

Arg Thr Tyr Tyr Asp Ile Leu Thr Gly Arg Phe Phe Asp Ile Trp Gly 100 105 110

Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala 130 135 140

Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly 145 150 155 160

Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln
165 170 175

His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg 185 190

Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr

Tyr Cys Ser Ser Tyr Thr Thr Lys Ser Thr Arg Val Phe Gly Gly 225 \$230\$

Thr Lys Leu Thr Val Leu Gly \$245\$

<210> 924 <211> 247

<212> PRT <213> Homo sapiens

<400> 924

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg 1 $5101015151015101510101510101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101$

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr 20 25 30

Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val $_{50}$

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys $85 \hspace{1.5cm} 90 \hspace{1.5cm} 95$

Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 \$120\$

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln 130 135 140

Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys 145 150 155 160

Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys \$165\$

Pro Gly Gln Ala Pro Val Pro Val' Ile Tyr Gly Lys Asn Asn Arg Pro

Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala 195 200 205 .

Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr 210 215 220

Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly 225 230 235

Thr Lys Leu Thr Val Leu Gly

<210> 925

<211> 251

<212> PRT

<213> Homo sapiens

<400> 925

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phé Thr Phe Ser Ser Tyr

Ala Met Thr Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Val 35 40 45

Ala Thr Ile Ser Asp Ser Ala Asp Arg Lys Tyr Tyr Ala Asp Ser Val 50 55 60

Lys Gly Arg Phe Thr Ile Phe Arg Asp Asn Ser Arg Asn Met Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Asp Leu Arg Tyr Asp Ile Leu Thr Gly Tyr His Asp Ala Phe

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 \$120\$

Gly Ser Gly Gly Gly Gly Gly Gly Gly Ser Gln Ser Val Leu $130 \\ 135 \\ 140$

Thr Gln Pro Pro Ser Ala Ser Gly Ser Pro Gly Gln Ser Val Thr Ile 145 150 150 155

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Phe Met Ile Tyr Asp $180 \,$ $185 \,$ $190 \,$

Val Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys $195 \ \ \, 200 \ \ \, 205$

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Val Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Ser Ala Ser Thr Val Ile 225 230235235

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 926 . <211> 249

<212> PRT

<213> Homo sapiens

<4'00> 926

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Thr Gly Tyr Thr Phe Arg Thr Ser 20 25 30

Gly Ile Thr Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met \$35\$

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys $85 \hspace{1cm} 90 \hspace{1cm} 95$

Ala Arg Gly Ala Tyr Tyr Asp Ile Leu Thr Gly Tyr Tyr Pro Tyr Gly 100 105 110

Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly 115 120 125

Gly Gly Ser Gly Gly Gly Gly Gly Gly Gly Gly Ser Asp Ile Gln $130\,$

Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Ile Gly Asp Arg Val 145 150 155 160

Thr Ile Thr Cys Arg Ala Ser Glu Gly Ile Tyr His Trp Leu Ala Trp $165 \cdot 170$ 170

Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Lys Ala 180 185 190

Ser Ser Leu Ala Ser Gly Ala Pro Ser Arg Phe Ser Gly Ser Gly Ser 195 200 205

Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Asp Asp Phe 210 215 220

Ala Thr Tyr Tyr Cys Gln Gln Tyr Ser Asn Tyr Pro Leu Thr Phe Gly 225 230 235 240

Gly Gly Thr Lys Leu Glu Ile Lys Arg 245

<210> 927

<211> 247

<212> PRT

<213> Homo sapiens

<400> 927

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr

Gly	Ile	Ser	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Met
		35					40					45			

- Gly Trp Met Asn Pro Asn Ser Gly Asn Thr Gly Tyr Ala Gln Lys Phe 50 $\,$ $\,$ 60 $\,$ $\,$
- Gln Gly Arg Val Thr Met Thr Arg Asn Thr Ser Thr Ser Thr Ala Tyr $65 707580$
- Ala Arg Gly Gln Tyr Tyr Asp Ile Leu Thr Gly Tyr Asn Trp Phe Asp $100 \hspace{1cm} 105 \hspace{1cm} 110$
- Pro Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 \$120\$
- Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln 130 135
- Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys \$165\$ \$170\$
- Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala 195 200
- Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr 210 215 220
- Cys Asn Ser Gln Asp Ser Ser Gly Asn His Val Val Phe Gly Gly Gly 225 230235235235
- Thr Lys Leu Thr Val Leu Gly

<210> 928 · <211> 246

<212> PRT <213> Homo sapiens

<400> 928 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 10 15

Ser Val Arg Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Asn Asn Asn 20 25 30

Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met \$35\$

Gly Gly Ile Ile Pro Met Phe Gly Thr Ala Lys Tyr Ser Gln Asn Phe 50 60

Gln Gly Arg Val Ala Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Ser 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95.

Ala Arg Ser Arg Asp Leu Leu Leu Phe Pro His Tyr Gly Met Asp Val $100 \ \ 105$

Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Ser 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Ser Ser Glu Leu Thr Gln Asp $130 \ \ 135 \ \ 140 \ \ \$

Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys Gln 145 150 155 160

Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys Pro 165 170 175

Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg Pro Ser 180 185 190

Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser 195 \$200\$

Asn Ser Arg Asp Ser Ser Gly Asn His Ala Val Phe Gly Gly Thr . 235 230

Lys Leu Thr Val Leu Gly 245

<210> 929 <211> 253

<212> PRT <213> Homo sapiens

<400> 929

Gln Met Gln Leu Val Glu Ser Ala Ala Val Val Lys Lys Pro Gly Ser 5

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Arg Thr Phe Ser Ser Tyr 20

Ala Met Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 40 35

Gly Gly Ile Ile Pro Leu Thr Arg Lys Val Asn Tyr Ala Gln Lys Phe 55 50

Gln Gly Arg Ile Thr Leu Thr Ala Asp Glu Leu Thr Arg Val Thr Tyr

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85

Ala Arg Gly Gly Tyr Ser Ser Gly Trp Leu Arg Gly Gly Pro Tyr Asn 100 105

Trp Phe Asp Pro Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly 120

Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser 135

Val Leu Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Lys Val 155

Thr Ile Ser Cys Ser Gly Ser Thr Ser Asn Ile Gly Asn Asn Tyr Val 170 175

Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr 190 185

Asp Val Ser Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser

Lys Ser Gly Asn Ser Ala Ser Leu Asp Ile Ser Gly Leu Gln Ser Glu 210 215 220

Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu Ser Glu 225 230 235

Phe Leu Phe Gly Thr Gly Thr Lys Leu Thr Val Ile Gly 245 . $250\,$

<210> 930 <211> 251

<211> 231 <212> PRT

<213> Homo sapiens

<400> 930

Gln Val Gln Leu Val Gln Ser Ala Ala Glu Val Lys Lys Pro Gly Ala 1 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr $20 \hspace{1cm} 25 \hspace{1cm} 30 \hspace{1cm}$

Gly Ile Ser'Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met $35 \ \ \, 40 \ \ \, 45$

Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Phe

Gln Gly Arg Val Thr Ile Thr Arg Asp Thr Ser Ala Ser Thr Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Gly Asp Tyr Asp Ile Leu Thr Gly Tyr Tyr Ile Pro Leu Arg $100 \hspace{1cm} 105 \hspace{1cm} 110 \hspace{1cm}$

Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 . 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Ala Thr Arg Ser Thr Arg Val 225 230 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 931

<211> 253

<212> PRT

<213> Homo sapiens

 $<\!400>931$ Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg . 1 5 10 15

Ser Leu Arg Leu Ser Cys Lys Thr Ser Gly Fhe Ser Phe Gly Asp His 20 25 . 30

Ala Met Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile \$35\$

Gly Tyr Ile Arg Ser Lys Ala Tyr Gly Gly Thr Thr Glu Ser Ala Ala 50 $\,$ 55 $\,$ 60 $\,$

Ser Val Lys Gly Arg Phe Ser Ile Ser Arg Asp Asp Ser Lys Ser Ile

Ala Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr \$85\$ 90 95

Tyr Cys Ser Arg Asn Leu Phe Asp Val Trp Thr Leu Pro Tyr Tyr Tyr 100 105 110

Tyr Met Asp Val Trp Gly Arg Gly Thr Thr Val Thr Val Ser Ser Gly 120

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser 135 130-

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile 155 145 150

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr 165 170

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile 180 185 190

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly 195 200 205

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala 210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr 230 235

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 932 <211> 250

<212> PRT

<213> Homo sapiens

<400> 932

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Glu Lys Lys Pro Gly Ala 15 1 5 10

Ser Val Lys Val Ser Cys Lys Alà Ser Gly Tyr Thr Phe Thr Ser Tyr 20

Ala Met His Trp Val Arg Gln Ala Pro Gly Gln Arg Leu Glu Trp Met

Gly Trp Ile Asn Ala Gly Asn Gly Asn Thr Lys Tyr Ser Gln Lys Phe 55

Gln 65	Gly	Arg	Val	Ala	Ile 70	Thr	Arg	Asp	Thr	Ser 75	Ala	Ser	Thr	Ala	Tyr 80	
Met	Glu	Leu	Ser	Ser 85	Leu	Arg	Ser	Glu	Asp 90	Thr	Ala	Val	Tyr	Tyr 95	Cys	
Ala	Arg	Ala	Asp 100	Tyr	Asp	Ile	Leu	Thr 105	Gly	Tyr	Ser	Pro	Leu 110	Thr	Tyr	
Gly	Met	Asp 115		Trp	Gly	Arg	Gly 120	Thr		Val	Thr	Val 125	Ser	Ser	Gly	
Gly	Gly 130		Ser	Gly	Gly	Gly 135	Gly	Ser	Gly	Gly	Gly 140	Gly	Ser	Asp	Ile	
Gln 145		Thr	Gln	Ser	Pro 150	Ser	Thr	Leu	Ser	Ala 155	Ser	Ile	Ġly	Asp	Arg 160	
Val	Thr	Ile	Thr	Cys 165	Arg	Ala	Ser	Glu	Gly 170	Ile	Tyr	His	Trp	Leu 175	Ala	
Trp	Tyr	- Gln	Gln 180		Pro	Gly	Lys	Ala 185	Pro	Lys	Leu	Leu	Ile 190	Tyr	Lys	
Ala	. Ser	Ser 195	Leu	Ala	Ser	Gly	Ala 200	Pro	Ser	Arg	Phe	Ser 205	Gly	Ser	Gly	
Sei	Gly 210		Asp	Phe	Thr	Leu 215		Ile	Ser	Ser	Leu 220	Glr	Pro	Asp	Asp	
Pho , 225		a Thi	c Tyr	туг	Cys 230	Gln	Glr	Tyr	Ser	Asr 235	туг	Pro	Leu	Thr	Phe 240	
G1;	y Gl	y Gl:	y Thi	: Lys 245		Glu	Ile	bys	250	1						
						-										
<2 <2	10> : 11> : 12> : 13> :	250 PRT	sap	iens												
G1	00> n Va 1	933 1 Gl	n Le	u Va	l Gli	n Ser	c Gl	y Gl	/ Gly	y Le	u Va	l Gl:	n Pr	Gly 15	y Gly	
Se	r Le	u Ar	g Le	u Se	r Cy	s Al	a Al	a Sen	r Gl	u Ph	e Th	r Va	l As	n Ası	n Asr	ı

Tyr Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val \$35\$

Gly Arg Ile Lys Ser Lys Thr Asp Gly Gly Thr Thr Asp Tyr Ala Ala $50 \ \ 55 \ \ \ 60$

Pro Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr 65 70 75 80

Leu Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr 85 90 95

Tyr Cys Thr Thr Met Tyr Tyr Asp Ile Leu Thr Gly His Asn Phe Asp 100 105 110

Tyr Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr 130 135 140

Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser 145 150 155 160

Cys Ile Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp 165 170 175

Tyr Gln Gln His Pro Gly Lys Mla Pro Lys Leu Met Ile Tyr Glu Gly 180 \$185\$

Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser 195 200 205

Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu 210 220

Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe 225 \$230\$

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly

<210> 934 <211> 253

<212> PRT <213> Homo sapiens

 $<\!400>934$ Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Asp Ser

Ser Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met \$35\$

Gly Gly Ile Ile Pro Ser Phe Gly Thr Ala Asn Tyr Ala Gln Lys Phe $50 \hspace{1cm} 55 \hspace{1cm} 60 \hspace{1cm}$

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 90

Ala Arg Val Ser Arg Asp Ile Leu Thr Gly Asn Tyr Tyr Tyr Tyr Gly $100 \\ 100$

Met Asp Val Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly 115 120 125

Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Tyr Val 130 140

Leu Thr Gln Pro Pro Ser Val Ser Gly Thr Pro Gly Gln Arg Val Thr 145 \$150\$

Ile Ser Cys Ser Gly Gly Arg Ser Asn Ile Gly Ser Asn Thr Val Lys $165 \hspace{1.5cm} 170 \hspace{1.5cm} 175 \hspace{1.5cm}$

Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Gly $180 \ \ 185 \ \ \ 190$

Asn Asp Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys $195 \hspace{1cm} 200 \hspace{1cm} \cdots \hspace{1cm} 205$

Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Val Gln Ala Glu Asp 210 225 220

Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser Leu Arg Gly Ser 225 $$ 230 $$ 235 $$ 240

Arg Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly 245 250

<210> 935

<211> 253 <212> PRT

<213> Homo sapiens

<400> 935

Gln Met Gln Leu Val Glu Ser Ala Ala Val Val Lys Lys Pro Gly Ser 1 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Arg Thr Phe Ser Ser Tyr 20 25 30

Ala Met Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met \$35\$

Gly Gly Ile Ile Pro Leu Thr Arg Lys Val Asn Tyr Ala Gln Lys Phe 50

Gln Gly Arg Ile Thr Leu Thr Ala Asp Glu Leu Thr Arg Val Thr Tyr
65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys $85 \hspace{0.5cm} 90 \hspace{0.5cm} 95$

Ala Arg Gly Gly Tyr Ser Ser Gly Trp Leu Arg Gly Gly Pro Tyr Asn $100 \ \ 105 \ \ \ 110$

Trp Phe Asp Pro Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser 130 135 140

Val Leu Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Lys Val 145 150 155 160

Thr Ile Ser Cys Ser Gly Ser Thr Ser Asn Ile Gly Asn Asn Tyr Val $165 \hspace{1cm} 170 \hspace{1cm} 170 \hspace{1cm} 175 \hspace{1cm}$

Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr 180 185 190

Asp Val Ser Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser 195 $200 \ 205$

Lys Ser Gly Asn Ser Ala Ser Leu Asp Ile Ser Gly Leu Gln Ser Glu 210 215 220

Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu Ser Glu 225 230 235 240

Phe Leu Phe Gly Thr Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 936

<211> 253

<212> PRT <213> Homo sapiens

<400> 936

Gln Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Lys Pro Gly Arg 1 10 15

Ser Leu Arg Leu Ser Cys Thr Ala Ser Gly Phe Thr Phe Gly Asp Tyr 20 25 30

Ala Met Ser Trp Phe Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Ser Ile 65 70 75 80

Ala Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr $85 \hspace{1cm} 90 \hspace{1cm} 95$

Tyr Cys Thr Arg Ala Gly Gly Tyr Tyr Asp Ile Leu Thr Gly Arg Asp $100 \\ 105$

Tyr Tyr Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Met Val Thr Val \$115\$ \$120\$ \$125\$

Ser Asp Val Val Met Thr Gln Ser Pro Ser Phe Leu Ser Ala Phe Val

Gly Asp Thr Ile Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Tyr Asn 165 170 175

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu 180 185 190

Ile Tyr Ala Ala Ser Thr Leu Gln Ser Gly Val Pro Ser Arg Phe Ser 195 \$200\$

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln 210 215

Pro Glu Asp Phe Gly Thr Tyr Tyr Cys Gln Gln Leu Ile Ser Tyr Pro 225 230 235 240

Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg 245 250

<210> 937

<211> 239

<212> PRT

<213> Homo sapiens

<400> 937

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Gly
1 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asp Asp Tyr

Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val . 35 40 45 .

Ser Gly Ile Asn Trp Asn Gly Gly Ser Thr Gly Tyr Ala Asp Ser Val

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr $65 \hspace{1.5cm} 70 \hspace{1.5cm} 75 \hspace{1.5cm} 80$

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys \$85\$. \$90\$

Ala Arg Arg Arg Tyr Ala Leu Asp Tyr Trp Gly Gln Gly Thr Leu Val

Thr Val Ser Arg Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly 120

- Gly Gly Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu 140 135 130
- Gly Gln Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr 155 160 145
- Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val 165
- Ile Tyr Gly Lys Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser 180
- Gly Ser Ser Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln 195
 - Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly 215 210
 - Asn His Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 230 225

<210> 938

<211> 253

<212> PRT

<213> Homo sapiens

<400> 938

- Gln Val Asn Leu Arg Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly 10 5
- Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ile Thr Phe Ser Ser Asp 25
- Asp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
- Ser Ala Ile Gly Arg Ser Arg Ser Thr Tyr Tyr Ala Asp Ser Val Lys 60
- Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu 70

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Asp Arg Gly Ser Tyr Asp Ile Leu Thr Gly Tyr Tyr Thr Pro Pro 100 105 110

His Tyr Tyr Gly Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val 115 120 125

Ser Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Gly 135 140

Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln 145 155 160

Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala 165 170 175

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr 180 185 190

Gly Lys Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser 195 $200 \ \ 205$

Ser Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu 210 215 220

Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His 225 230 230

Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 939

<211> 253

<212> PRT

<213> Homo sapiens

<400> 939

Gln Met Gln Leu Val Glu Ser Ala Ala Val Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Arg Ser Phe Ser Ser Tyr $20 \hspace{1cm} 25 \hspace{1cm} 30 \hspace{1cm}$

Ala Met Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
. 35 40 45

Gly Gly Ile Ile Pro Leu Thr Arg Lys Val Asn Tyr Ala Gln Lys Phe $_{50}$

Gln Gly Arg Ile Thr Leu Thr Ala Asp Glu Leu Thr Arg Val Thr Tyr 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys $85 \hspace{1cm} 90 \hspace{1cm} 95$

Ala Arg Gly Gly Tyr Ser Ser Gly Trp Leu Arg Gly Gly Pro Tyr Asn 100 105 110

Trp Phe Asp Pro Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly $115 \ 120 \ 125$

Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser 130 $$135\$

Val Leu Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Lys Val 145 150 155 160

Thr Ile Ser Cys Ser Gly Ser Thr Ser Asn Ile Gly Asn Asn Tyr Val $165 \hspace{1cm} 165 \hspace{1cm} 170 \hspace{1cm} 170 \hspace{1cm} 175 \hspace{1cm}$

Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr 180 185 190

Asp Val Ser Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser 195 $200 \ \ 205$

Lys Ser Gly Asn Ser Ala Ser Leu Asp Ile Ser Gly Leu Gln Ser Glu 210 215 220

Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu Ser Glu 225 230 235

Phe Leu Phe Gly Thr Gly Thr Lys Leu Thr Val Leu Gly $245\,$

<210> 940 <211> 251

<212> PRT

<213> Homo sapiens

<400> 940

Gln 1	Val	Gln	Leu	Gln 5	Gln	Ser	Gly	Ala	Glu 10	Val	Lys	Lys	Pro	Gly 15	Ala	•	
Ser	Val	Lys	Val 20	Ser	Cys	Lys	Ala	Ser 25	Gly	Tyr	Thr	Phe	Thr 30	Lys	Tyr		
Thr	Met	His 35	Trp	Val	Arg	Gln	Ala 40	Pro	Gly	Gln	Gly	Pro 45	Glu	Trp	Met		
Gly	Trp 50	Ile	Asn	Gly	Gly	Ser 55	Gly	Asp	Thr	Lys	Tyr 60	Ser	Arg	Lys	Phe		
Gln 65	Gly	Arg	Val	Thr	Ile 70	Thr	Lys	Asp	Thr	Ser 75	Ala	Ser	Ala	Ala	Tyr 80		
Met	Glu	Leu	Ser	Ser 85	Leu	Gly	Ser	Glu	Asp 90	Thr	Ala	Leu	Tyr	Tyr 95	Cys		
Ala	Arg	Ala	Thr 100	Tyr	Asp	Pro	Leu	Thr 105	Gly	Tyr	Ser	Phe	Asp 110	Gly	Phe		
Asp	Ile	Trp 115	Gly	Lys	Gly	Thr	Leu 120	Val	Thr	Val	Ser	Ser 125	Gly	Gly	Gly		
Gly	Ser 130		Gly	Gly	Gly	Ser 135		Gly	Gly	Gly	Ser 140	Gln	Ser	Val	Leu		
Thr 145		Pro	Ala	Ser	Val 150		Gly	Ser	Pro	Gly 155	Gln	Ser	Ile	Thr	Ile 160		
Ser	Cys	Thr	Gly	Thr 165		Ser	Asp	Val	Gly 170	Gly	Tyr	Asn	Tyr	175	Ser		
Trp	Туг	Gln	Gln 180		Pro	Gly	Lys	185	Pro	Lys	Leu	Met	Ile 190	Tyr	Glu		
Gly	Sez	: Lys 195		Pro	Ser	Gly	Val 200	L Ser	Asn	Arg	y Phe	Ser 205	Gly	ser Ser	Lys		
Ser	Gly 210		Thr	Ala	ser	Leu 215		: Ile	Ser	Gly	7 Leu 220	Glr	Ala	a Glu	a Asp		

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val $225 \hspace{1cm} 230 \hspace{1cm} 235 \hspace{1cm} 235 \hspace{1cm}$

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 941

<211> 249 <212> PRT

<213> Homo sapiens

<400> 941

Glu Val Gln Leu Val Gln Ser Gly Gly Val Val Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asp Asp Tyr $20 \hspace{1cm} 25 \hspace{1cm} 30 \hspace{1cm}$

Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ser Leu Ile Ser Trp Asp Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val

Lys Gly Arg Phe Thr Val Ser Arg Asp Asn Ser Lys Lys Thr Leu Tyr $65 \hspace{1.5cm} 70 \hspace{1.5cm} 75 \hspace{1.5cm} 80$

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys $85 \hspace{1cm} 90 \hspace{1cm} 95$

Ala Arg Ser His Tyr Asp Ile Leu Thr Gly Leu Asn Tyr Trp Tyr Phe 100 105 110

Asp Tyr Trp Gly Gln Gly Thr Thr Val Thr Val Gly Gly Gly Ser 115 \$120\$

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln $130 \,$ $135 \,$ $140 \,$

Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys 145 150 155

Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr 165 170 175

Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser 180 185 190

Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly 195 $200 \ \ 205$

Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala

Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly 225 230 235

Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 942

<211> 250 <212> PRT

<213> Homo sapiens

<400> 942

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40 45

Gly Arg Ile Ile Pro Ile Val Asn Met Ala Asn Tyr Ala Gln Lys Phe $_{50}$ $_{60}$

Gln Gly Arg Val Thr Leu Thr Ala Asp Lys Ser Thr Gly Thr Ala Tyr $65 \hspace{1.5cm} 70 \hspace{1.5cm} 75 \hspace{1.5cm} 80$

Met Glu Leu Thr Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys $85 \hspace{1cm} 90 \hspace{1cm} 95$

Ala Arg Glu Asn Tyr Asp Phe Leu Thr Gly Tyr Tyr Gly Ala Phe Asp 100 105 110

Ile Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 , 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Gly Ser Gln Ser Val Leu Thr 130 140

Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser 145 150 150 155

Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp \$165\$

Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly

Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser 195 200 205

Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu 210 215 220

Ala Asp Tyr Tyr Cys Asn Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe 225 230 235

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly $245 \ \ \,$

<210> 943

<211> 251

<212> PRT

<213> Homo sapiens

<400> 943 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly 1 $$ 15

Ser Leu Arg Leu Ser Cys Thr Ala Ser Gly Phe Thr Phe Gly Asn Ala

Trp Met Thr Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val $\frac{1}{2}$ 35 40 45

Ala Arg Ile Lys Ser Lys Thr Ser Asp Gly Thr Thr Asp Tyr Ala Ala 50 60

Pro Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr $65 \ 70 \ 75 \ 80$

Leu Tyr Leu Gln Met Ser Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr \$90\$

Tyr Cys Thr Thr Gly Ile Tyr Asp Ile Leu Thr Gly Tyr His Trp Asp 100 105 110

Gly Ala Phe Asp Ile Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser 130 135 140

Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val 145 150 155 160

Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp 165 170 175

Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys \$180\$

Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser 195 . 200 200

Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu 210 215 220

Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Leu 225 230 235

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 944 <211> 251 <212> PRT

<213> Homo sapiens

<400> 944 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Fro Gly Ala $\frac{1}{1}$ $\frac{10}{1}$

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr $20 \hspace{1cm} 25 \hspace{1cm} 30 \hspace{1cm}$

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Glu Pro Glu Trp Met \$35\$

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe $50 \ \ \, 55 \ \ \,$ 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 \$150\$

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 . 170

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys \$195\$

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val $_{\rm 225}$ $_{\rm 230}$ $_{\rm 235}$

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 945

<211> 251

<212> PRT <213> Homo sapiens

<400> 945

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Thr Val Ser Cys Lys Thr Ser Gly Tyr Thr Phe Lys Asp Tyr 20 25 30 $\sqrt{}$

Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40 45

Gly Val Ile Asn Pro Asn Gly Ile Ser Thr Asn Tyr Ala Gln Lys Phe 50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Met Ser Thr Ser Thr Val Tyr $65 \hspace{1cm} 70 \hspace{1cm} 75 \hspace{1cm} 80$

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Phe Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe $100 \\ 105 \\ 110$

Asp Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150155155

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 . 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 . 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys \$195\$

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Tyr Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 230 235

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 $\,$ 250

<210> 946 <211> 249

<212> PRT

<213> Homo sapiens

<400> 946

Gln Val Gln Leu Gln Gln Trp Gly Ala Gly Leu Met Lys Pro Ser Glu Thr Leu Thr Leu Thr Cys Ala Gly Tyr Gly Gly Tyr Phe Ser Thr Tyr 25 Tyr Trp Ser Trp Met Arg Gln Thr Pro Gly Lys Gly Leu Glu Cys Met Gly Glu Ile Asn His Ser Glu Ser Thr Asn Tyr Tyr Pro Ser Leu Met 60 50 Ser Gly Val Thr Ile Leu Leu Asp Thr Ser Asn Asn Gln Ile Ser Leu Lys Leu Ser Ser Val Thr Asp Ala Tyr Thr Gly Ala Tyr Tyr Cys Ala 85 Thr Ile Arg Leu Tyr Cys Tyr Ser Leu Thr Gly Tyr Tyr Pro Tyr Gly 105 100 Met Asp Asp Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly 115 120 Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu 130 135 140 Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile 145 150 155 160 Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln 165 170 175 Gln Lys Pro Gly Gln Ala Pro Val Leu Val Val Tyr Gly Lys Asn Lys 180 185 190 Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn 200 Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp 215 Tyr Tyr Cys His Tyr Gln Asp Ser Ser Gly Asn His Val Leu Phe Gly

1106

Gly Gly Thr Lys Leu Thr Val Leu Gly

<210> 947 <211> 250 <212> PRT

<213> Homo sapiens

<400> 947 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 10 15

Ser Val Lys Val Ser Cys Lys Thr Ser Gly Gly Thr Phe Asn Thr Ser 20 25 30

Ala Val Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met \$35\$

Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr $65 \hspace{1.5cm} 70 \hspace{1.5cm} 75 \hspace{1.5cm} 80$

Ala Thr Thr Asn Tyr Asp Ile Leu Thr Gly Tyr Tyr Gln Gly Val Asp $100 \\ 105 \\ 110$

Tyr Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 \$120\$

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr 130 135 140

Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser

Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp 165 170 175

Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly 180 \$180\$

Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser 195 200 205

Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu 210 215 220

Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe 225 230 235

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 948

<211> 247 <212> PRT

<213> Homo sapiens

<220>

<221> Site

<222> (227)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 948

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr 20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met $35 \hspace{1cm} 40 \hspace{1cm} 45 \hspace{1cm}$

Gly Trp Met Asn Pro Asn Ser Gly Asn Thr Gly Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asn Thr Ser Thr Ser Thr Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys $85 \hspace{1cm} 90 \hspace{1cm} 95$

Ala Arg Gly Gln Tyr Tyr Asp Ile Leu Thr Gly Tyr Asn Trp Phe Asp $100 \hspace{1.5cm} 105 \hspace{1.5cm} 110 \hspace{1.5cm}$

Pro Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 \$120\$

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln 130 135 140

Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys 145 150 Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys 170 175 165 Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala 195 200 Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr 215 220 Cys Asn Xaa Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly 230 235 Thr Lys Leu Thr Val Leu Gly 245 <210> 949 <211> 251 <212> PRT <213> Homo sapiens <400> 949 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly Ser Leu Arg Leu Ser Cys Thr Ala Ser Gly Phe Thr Phe Gly Asn Ala Trp Met Thr Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 40 Ala Arg Ile Lys Ser Lys Thr Ser Asp Gly Thr Thr Asp Tyr Ala Ala Pro Val Lys Gly Arg Phe Ala Ile Ser Arg Asp Asp Ser Lys Asn Thr 75 80 65 Leu Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr 85 . 90 95 Tyr Cys Thr Thr Gly Ile Tyr Asp Ile Leu Thr Gly Tyr His Trp Asp

ryr Cys Thr Thr Gly Ile Tyr Asp Ile beu Thr Gly Tyr His Trp As 1109

105 110 100

Asp Ala Phe Asp Ile Trp Gly Arg Gly Thr Thr Val Thr Val Ser Ser 120

Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser 135

Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val 155 160 145

Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp 165

Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys 185

Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser 195 200

Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu 215

Ala Asp Tyr Tyr Cys Asn Tyr Arg Asp Ser Ser Gly Asn His Val Val 235 230

Phe Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 950

<211> 248

<212> PRT

<213> Homo sapiens

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Gly Asp

Tyr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met

Gly Trp Ile Asn Pro Asn Ser Gly Gly Thr Asn Tyr Ser Gln Lys Phe

Arg Asp Arg Val Thr Met Thr Arg Asp Thr Ala Thr Ser Thr Ala Tyr 75 80 Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 -95 Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 105 Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly 120 115 Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr 130 135 Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr 145 150 155 Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln Gln 165 1.70 Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys Arg 185 180 Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr 195 . 200 Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr 220 215 210 Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly 235 230 225 Gly Thr Lys Leu Thr Val Leu Gly . 245 <210> 951 <211> 251 <212> PRT <213> Homo sapiens Gln Met Gln Leu Val Gln Ser Gly Gly Gly Leu Val Lys Pro Gly Gly

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asp Tyr

5

20 25 30

Tyr Met Ser Trp Ile Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val \$35\$

Ser Tyr Ile Ser Ser Ser Ser Ser Tyr Thr Asn Tyr Ala Asp Ser Val $50 \ \ 55 \ \ 60$

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr 65 70 . 75

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Asp Phe Tyr Asp Ile Leu Thr Gly Tyr Pro Leu Gly Gly Met $100 \,$ $105 \,$ $110 \,$

Asp Val Trp Gly Lys Gly Thr Leu Val Thr Val Phe Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Ala Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150150155

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 952

<211> 251 <212> PRT

<213> Homo sapiens

 $<\!400>952$ Gln Val Gln Leu Val Gln Ser Gly Gly Gly Val Val Gln Pro Gly Gly 1 5 .15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr 20 25 30

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val \$35\$

Ala Phe Ile Arg Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val $50 \ \ 55 \ \ 60$

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys $85 \hspace{0.5cm} 90 \hspace{0.5cm} 95$

Ser Gly Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser 115 $\,$ 120 $\,$ 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ser 130 \$135\$

Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val 145 150 155 160

Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp 165 170 175

Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys 180 185 190

Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser 195 200 205

Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu 210 215 220

Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val 240 230 235 225 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250 <210> 953 <211> 248 <212> PRT <213> Homo sapiens <400> 953 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 1.0 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 2.0 25 Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 40 3.5 Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 55 50

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Val Ser Ala Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 105 110

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ser Glu Leu Thr 130 135 140

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr 145 150 150 155 160

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Ser Trp Tyr Gln Gln 165 170 175

Lys Pro Gly Gln Ala Pro Val Leu Val Val Tyr Gly Lys Asn Asn Arg

180 185 190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr 210 220

Tyr Cys Asn Tyr Gln Asp Ser Ser Gly Asn His Val Val Phe Gly Gly 225 230 235

Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 954 <211> 253

<212> PRT <213> Homo sapiens

<400> 954

Glin Val Gln Leu Gln Glu Ser Gly Ala Gly Leu Leu Lys Pro Ser Glu 1 5 10 15

Thr Leu Ser Leu Thr Cys Ala Val Tyr Gly Gly Ser Phe Ser Gly Tyr 20 25 30

Gln Trp Asn Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile \$35\$

Gly Glu Ile Asn His Ser Gly Ser Thr Asn Tyr Asn Pro Ser Leu Asn 50 60

Ser Arg Val Thr Ile Ser Gln Asp Thr Ser Asn Asn Gln Phe Ser Leu $_{65}$ $_{70}$ $_{70}$ $_{75}$

Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Gly Arg Arg Tyr Asp Ile Leu Thr Gly Tyr Tyr Tyr Tyr His His 100 105 110

Gly Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly 115 120 125

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile 150 155 Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr 165 170 · Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile 180 185 Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly 200 Ser Lys Ser Gly Asp Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala 215 Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr 235 240 225 230 Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250 <210> 955 <211> 251 <212> PRT <213> Homo sapiens <400> 955 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg 5 10 1 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr 25 20 Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 Ala Leu Ile Trp Tyr Asp Gly Ser Lys Lys Tyr Tyr Ala Asp Ser Val 55 Lys Gly Arg Phe Thr Val Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 70 75 65 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 Ala Arg Ser His Tyr Asp Ile Leu Thr Gly Leu Asn Tyr Trp Tyr Phe

Ala Arg Ser His Tyr Asp Ile Leu Thr Gly Leu Asn Tyr Trp Tyr Ph 1116

100 110 105

Asp Leu Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 150 155

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 185

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 200

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 250 245

<210> 956

<21.1> 252 <212> PRT

<213> Homo sapiens

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Gly 10 5

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr 25 20

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 45 3.5 40

Ala Val Ile Ser Tyr Asp Gly Ser Asp Lys Tyr Tyr Glu Asp Ser Val 55 50

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 70 65 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg Asp Ser Gly Gly Asp Ile Leu Thr Gly Tyr Tyr Met Pro Tyr 105 110 100 Phe Asp Tyr Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser Gly Gly 120 Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val 130 135 Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr 145 150 155 Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val 165 170 Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr 185 . 190 180 Glu Gly Ser Arg Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser 200 205 195 Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Pro Gln Ala Glu 215 220 210 Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg 225 230 235 240 Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 <210> 957 <211> 249 <212> PRT <213> Homo sapiens

Thr Leu Ser Leu Thr Cys Ala Val Tyr Gly Gly Ser Phe Ser Asn Tyr
1118

Gln Val Gln Leu Gln Gln Trp Gly Ala Gly Leu Leu Lys Pro Ser Glu
1 15

20 25 30

Tyr Trp Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Val

Gly Glu Ile Asn His Ser Gly Ser Thr Asn Tyr Asn Pro Ser Leu Lys 50 55 60

Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser Leu 65 70 75 80

Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Val Gly Leu Tyr Tyr Asp Ile Leu Thr Gly Tyr Tyr Pro Ser Gly $100 \ \ 105 \ \ \ 110$

Met Asp Val Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly 115 \$120\$

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ser Glu Leu 130 135 140

Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile 145 $$ 150 $$ 155 $$ 160

. Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln \$165\$ \$170\$ \$175\$

Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys As
n Lys 180 185 190

Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn 195 200 205

Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp 210 225 220

Tyr Tyr Cys His Ser Arg Asp Ser Ser Gly Asn His Val Leu Phe Gly 225 230 235 240

Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 958

- <211> 257
- <212> PRT
- <213> Homo sapiens

<400> 958

- Gln Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Lys Pro Gly Gly 1.0
- Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Ala 20 2.5
- Trp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
- Gly Arg Ile Lys Ser Lys Thr Asp Gly Gly Thr Thr Asp Tyr Ala Ala 55
- Pro Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr 65
- Leu Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr 90
- Tyr Cys Thr Thr Ser Gln Ala His Tyr Asp Ile Leu Thr Gly Tyr Tyr 105 100
- Leu Trp Ser Tyr Gly Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr 115
- Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly 140 135 130
- Gly Ser Gln Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro 150 145
- Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly 170 165
- Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro 185 180
- Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn 205 200 195
- Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser 215 220

Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr 225 230 235 240

Thr Arg Ser Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu 245 250 255

Gly

<210> 959 <211> 248

<211> 240 <212> PRT

<213> Homo sapiens

<400> 959

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala

Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Asp Thr Ser Thr Tyr Tyr 20 25 30

Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40 45

Gly Ile Ile Asn Pro Arg Gly Gly Ser Thr Ser Tyr Ala Gln Lys Phe $50 \hspace{1.5cm} 55 \hspace{1.5cm} 60 \hspace{1.5cm}$

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Asp Leu Trp Gly Arg Gly Thr Thr Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ser Glu Leu Thr 130 135 140

Gln Asp Pro Ala Val Ser Val Val Leu Gly Gln Thr Val Arg Ile Thr 145 150 155 160

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln Gln
1121

165 170 175

Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys Arg 180 185 190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr \$195\$

Tyr Cys His Ser Arg Asp Ser Ser Gly Asn His Val Leu Phe Gly Gly 225 230 235

Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 960 <211> 251

<211> 251 <212> PRT

<213> Homo sapiens

<400> 960

Gly Val Gln Leu Val Gln Ser Gly Ala.Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ala Ser Phe $20 \hspace{1cm} 25 \hspace{1cm} 30 \hspace{1cm}$

Ala Ile His Trp Val Arg Gln Ala Pro Gly Gln Arg Leu Glu Trp Met $35 \ \ 40 \ \ 45$

Gln Gly Arg Val Thr Ile Thr Arg Asp Thr Ser Ala Ser Thr Ala Tyr $65 \hspace{1.5cm} 70 \hspace{1.5cm} 75 \hspace{1.5cm} 80$

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 105 110

Asp Ile Trp Gly Gln Gly Ala Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 135 130 Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 155 160 Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 205 195 200 Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220 Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235 240 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 . 250 <210> 961 <211> 251 <212> PRT <213> Homo sapiens Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 20 25 Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 35 40 45 Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 50 55 Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 75

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 1123

85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 105 110

Asp Ile Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 \$150\$

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230235235

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 962

<211> 251

<212> PRT <213> Homo sapiens

.....

<400> 962
Glu Val Gln Leu Val Gln Ser Gly Val Glu Val Lys Lys Pro Gly Ala
1 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr
20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 35 40 45

Gly Trp Tle Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 55 Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 70 75 80 Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 105 Asp Ile Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 120 Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu 130 135 Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 150 155 145 Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 170 165 Tro Tvr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 185 180 Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 200 195 Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 220 215 . 210 Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 963 <211> 249 <212> PRT

<213> Homo sapiens

<400> 963

Glu Val Gln Leu Val Gln Ser Gly Gly Gly Leu Ile Gln Pro Gly Gly

10 15 5 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Tyr 20 25 30 Pro Met Thr Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Val 40 Ser Thr Ile Thr Asp Ser Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val 55 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asp Thr Leu Phe 65 70 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Ile Tyr Tyr Cys 85 9.0 Ala Lys Asp Arg Glu Tyr Asp Leu Leu Thr Gly Tyr Tyr Leu His Ala 105 110 100 Phe Asp Met Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly 120 115 Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu 135 Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile 155 145 150 Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln 170 165 Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn 185 Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn 205 195 200 Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp 220 215 Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly 230 235 240 225

Gly Gly Thr Lys Leu Thr Val Leu Gly

. 245

<210> 964 <211> 250

<211> 250 <212> PRT

<213> Homo sapiens

<400> 964

Gln Val Gln Leu Gln Gln Ser Arg Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met $35 \ \ \, 40 \ \ \, 45$

Gly Arg Ile Ile Pro Ile Val Asn Met Ala Asn Tyr Ala Gln Lys Phe $50 \hspace{1cm} 60$

Gln Gly Arg Val Thr Leu Thr Ala Asp Lys Ser Thr Gly Thr Ala Tyr 65 70 75 80

Met Glu Leu Thr Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Glu Asn Tyr Asp Phe Leu Thr Gly Tyr Tyr Gly Ala Phe Asp \cdot 100 \cdot 105 \cdot 110

Ile Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr 130 135 140

Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser 145 150 155

Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp $165 \\ 170 \\ 175$

Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly
180 185 190

Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser 195 200 205

Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu 215 Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe 225 230 235 240 Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250 <21.0> 965 <211> 248 <212> PRT <213> Homo sapiens Gln Val Gln Leu Gln Gln Ser Gly Ser Glu Val Lys Lys Thr Gly Ala 5 10 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 20 - 25 Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 40 Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 50 55 60 Gln Gly Arg Ile Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 105 Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr 135 , 140 130 Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr 145 150 155 160 Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln Gln

1128

165 170 175

Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Asn Arg 180 185 190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr 210 215 220

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly 225 230 235

Gly Thr Lys Leu Thr Val Leu Gly

<210> 966

<211> 253

<212> PRT <213> Homo sapiens

<400> 966

Glu Val Gln Leu Gln Gln Ser Gly Gly Glu Val Lys Lys Pro Gly Ala $\,^{\circ}$ 1 5 $\,^{\circ}$ 10 $\,^{\circ}$ 15

Ser Val Arg Val Ser Cys Arg Ala Ser Gly Tyr Thr Fhe Thr Tyr 20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met \$35\$ 40 45

Gly Trp Ile Ser Ala Tyr Tyr Gly Thr Thr Asn Tyr Ala Gln Asn Leu
50 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Asn Thr Val Tyr 65 . 70 70 75

Met Glu Leu Arg Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys . 85 90 95

Ala Arg Asp Gly Ser Tyr Asp Ile Leu Thr Gly Tyr Tyr Ile Asp Asn 100 $$105\,$. $$110\,$

Tyr Met Asp Val Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser 130 140

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile 145 150150155

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr 165 170 175

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile 180 185 190

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly 195 200 205

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala 210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr 225 230235235

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 967 <211> 248

<212> PRT

<213> Homo sapiens

<400> 967

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 10 15

Ser Val Arg Val Ser Cys Lys Ala Ser Gly Tyr Ile Phe Ser Asp Tyr 20 25 30

Tyr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met $35 \ \ 40 \ \ 45$

Gly Arg Ile Asn Ser Lys Arg Gly Val Ser Asn Tyr Ala Gln Asn Phe 50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Ile Ser Thr Ala Tyr $65 \ 70 \ 75 \ 80$

Met Glu Leu Ser Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 1130

85 90 95

Ala Arg Asp His Tyr Asp Ile Leu Thr Gly Leu Tyr Tyr Tyr Gly Met $100 \hspace{1cm} 105 \hspace{1cm} 110 \hspace{1cm}$

Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ser Glu Leu Thr 130 135 140

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr 145 \$150\$

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln 165 \$170\$

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg $180\,$

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr 195 200 205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr 210 215 220

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly 225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 968

<211> 251

<212> PRT <213> Homo sapiens

<400> 968

Gly Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 ' 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 35 40 45

Gly Trp Tle Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 50 55 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 75

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys $85 \hspace{1cm} 90 \hspace{1cm} 95$

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe $100 \\ 105$

Asp Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 \$120\$

Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 \$150\$

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser $165 \hspace{1cm} 170 \hspace{1cm} 175 \hspace{1cm}$

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Arg Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys \$195\$

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Gly Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 \$230\$

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 969

<211> 247 <212> PRT

<213> Homo sapiens

Gln Val Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser Ser Val

1 5 10 15

Lys Val Ser Cys Lys Ala Ser Arg Gly Ser Phe Ser Lys Tyr Gly Phe 20 · 25 30

Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly Gly 35 40 45

Arg Val Thr Ile Thr Ala Asp Asp Asp Thr Ser Thr Val Tyr Met Glu $_{\rm 65}$ $^{\rm 70}$ $^{\rm 70}$ $^{\rm 75}$ $_{\rm .}$ $^{\rm 80}$

Leu Arg Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg $85 \ 90 \ 95 \ .$

Gly Arg Arg Tyr Asp Ile Leu Thr Gly Tyr Tyr Lys Gly Pro Leu Asp 100 105 110

Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Asp Ile Gln Met Thr $130 \ \ \, 140$

Thr Cys Arg Ala Ser Glu Gly Ile Tyr His Trp Leu Ala Trp Tyr Gln
165 170 175

Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Lys Ala Ser Ser $180 \hspace{1.5cm} 185 \hspace{1.5cm} 190 \hspace{1.5cm}$

Leu Ala Ser Gly Ala Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr $195 \hspace{1cm} 200 \hspace{1cm} 205 \hspace{1cm}$

Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Asp Asp Phe Ala Thr 210 215 220

Tyr Tyr Cys Gln Gln Tyr Ser Asn Tyr Pro Leu Thr Phe Gly Gly Gly 225 230 235 240

Thr Lys Leu Glu Ile Lys Arg

245

<210> 970 <211> 248 <212> PRT

<213> Homo sapiens

<400> 970 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Arg Pro Gly Ser 1 5 10 15.

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Thr Asn Tyr 2025

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40 45

Gly Arg Ile Ile Pro Val Leu Gly Ile Ala Asn Tyr Ala Gln Lys Phe 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Ser Thr Thr Thr Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys $85 \hspace{1cm} 90 \hspace{1cm} 95$

Ala Thr Ala Tyr Tyr Asp Asn Leu Thr Gly Phe Leu Pro Tyr Gly Met 100 105 110

Gly Val Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 . 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ser Glu Leu Thr 130 135 140

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr 145 \$150\$ \$155\$

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln 165 \$170\$

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg 180 185 190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr $195 \ \ \, 200 \ \ \, 205$

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr 210 215 Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly 230 235 · 240 Gly Thr Lys Leu Thr Val Leu Gly 245 <210> 971 <211> 254 <212> PRT <213> Homo sapiens <400> 971 Gly Val Gln Leu Val Gln Ser Gly Gly Gly Val Val Gln Pro Gly Glu 1 10 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Thr Thr Tyr 20 25 Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Gly Ser Ser Ser Gly Ser Thr Tyr Tyr Ala Asp Ser Val 50 55 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 90 85 Ala Lys Glu Gly Tyr Asp Ile Leu Thr Gly Tyr Phe Leu Asp Tyr Tyr 100 105 His Gly Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser 125 115 120 Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln 130 135 Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser

Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn 1135

155

150

145

165 170 175

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met 180 185 190

Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser 195 200 205

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln 210 215 220

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser 225 230 ,235 240

Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly $245 \ \ \, 250 \ \ \,$

<210> 972

<211> 251

<212> PRT

<213> Homo sapiens

<400> 972

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Arg Lys Pro Gly Ala 1 5 10

Ser Val Lys Val Ser Cys Lys Thr Ser Gly Tyr Ile Phe Ser Lys Tyr $20 \hspace{1cm} 25 \hspace{1cm} 30 \hspace{1cm}$

Thr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 35 . 40 $\,$ 45

Gly Trp Ile Asn Gly Gly Ser Gly Gly Thr Lys Tyr Pro Arg Asn Phe 50 55 60

Gln Gly Arg Leu Thr Ile Ser Lys Asp Thr Ser Ala Ser Val Val Tyr $65 \hspace{1.5cm} 70 \hspace{1.5cm} 75 \hspace{1.5cm} 80$

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe $100 \,\,$ $105 \,\,$ $110 \,\,$

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 \$120\$

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu 135 Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 150 . 155 - 160 Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 185 Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 200 195 Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 250 245 <210> 973 <211> 259 <212> PRT <213> Homo sapiens <400> 973 Gln Met Gln Leu Val Gln Ser Gly Ala Glu Val Lys Met Pro Gly Ala 1 5 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Leu Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr 75 70

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys

85 90 95

Ala Arg Gly Pro Arg Gly Gly Pro Tyr Tyr Asp Ile Leu Thr Gly Tyr 100 105 110

Tyr Leu Ser Leu Ser Asp Ala Phe Asp Ile Trp Gly Gln Gly Thr Met 115 120 125

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly 130 135

Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Ala 145 \$150\$

Ala Pro Gly Gln Lys Val Thr Ile Ser Cys Ser Gly Ser Thr Ser Asn 165 170 175

Tie Gly Asn Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala 180 .185 190

Pro Lys Leu Met Ile Tyr Asp Val Ser Lys Arg Pro Ser Gly Val Pro 195 200 205

Asp Arg Phe Ser Gly Ser Lys Ser Gly Asn Ser Ala Ser Leu Asp Ile 210 215 220

Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp 225 - 230 235 240

Asp Asp Ser Leu Ser Glu Phe Leu Phe Gly Thr Gly Thr Lys Leu Thr 245 255

Val Leu Gly

<210> 974

<211> 249 <212> PRT

<213> Homo sapiens

<400> 974

Glu Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Tyr 20 25 30

Trp Met Thr Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Ser Ile Ser Ser Ser Ser Ser Tyr Ile Tyr Tyr Ala Asp Ser Val

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met As
n Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys $85 \hspace{1.5cm} 90 \hspace{1.5cm} 95$

Ala Arg Glu Tyr Tyr Asp Ile Leu Thr Gly Tyr Arg Asp Pro Tyr Gly $100 \\ 0.05$

Met Asp Val Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly 115 .120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ser Glu Leu $130 \,$ $135 \,$ $140 \,$

Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile 145 \$150\$

Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln \$165\$ \$170\$ \$175\$

Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys $180 \,$ $185 \,$ $190 \,$

Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Gly Asn 195 200 205

Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp 210 215

Tyr Tyr Cys His Ser Arg Asp Ser Ser Gly Asn His Val Leu Phe Gly 225 $^{\circ}$ 230 $^{\circ}$ 235 $^{\circ}$ 240

Gly Gly Thr Lys Leu Thr Val Leu Gly

<210> 975

<211> 251

<212> PRT

<213> Homo sapiens

<400> 975

<400> 975
Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr $20\ , \ 25\ -\ 30$

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 35 40 45

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 105 110

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 \$150\$

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser \$165\$

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu $180 \,\,$ 185 $\,\,$ 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val

225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 976 <211> 251 <212> PRT <213> Homo sapiens

Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Val Thr Phe Asn Asp Tyr 20 25 30

Ala Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val 35 40 45

Gly Gly Ile Ile Pro Lys Phe Gly Lys Ala Lys Tyr Ala Gln Lys Phe $50 \ \ 60$

Gln Gly Arg Leu Thr Ile Ser Gly Asp Lys Ser Thr Ser Thr Ala Tyr $_{65}$ 70 75

Met Glu Leu Arg Ser Leu Thr Ser Asp Asp Thr Ala Val Tyr Tyr Cys $85 \hspace{1cm} 90 \hspace{1cm} 95$

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe $100\,$. $\,105\,$ $\,110\,$

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser \$165\$ \$170\$

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 $$ 230 $$ 235 $$ 235 $$ 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 977 <211> 254

<212> PRT

<213> Homo sapiens

<400> 977 Gly Met Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg $1 \ \ \, 10 \ \ \, 15$

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr 20 25 30

Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val $50 \ \ 55 \ \ 60$

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys $$85\ \ 90\ \ \ 95$

Ala Thr Glu Val Arg Asn Tyr Asp Leu Leu Thr Arg Ser Tyr Leu Ala $100 \hspace{0.5cm} 105 \hspace{0.5cm} 105 \hspace{0.5cm} 110 \hspace{0.5cm}$

Gly Pro Leu Asp Asn Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser 115 \$120\$

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln 130 135 140

Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Phe Pro Gly Gln Ser 1142

145 150 155 160

Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn $165 \hspace{1cm} 175 \hspace{1cm} 170 \hspace{1cm} 175 \hspace{1cm}$

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met 180 185

Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser $195 \\ 000 \\ 205$

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln 210 220

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser 225 230 235

Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 978

<211> 251

<212> PRT <213> Homo sapiens

<400> 978 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{15}$

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr $20 \\ 20 \\ 30$

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 50

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe $100 \ 105 \ 110$

Asp Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 120 115

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu 135 130

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 150 - 155

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 170 165

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 185 , 180

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 200

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 215

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 235 240 230 225

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 979 <211> 251

<212> PRT

<213> Homo sapiens

<400> 979

Gly Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1.0

Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Val Thr Phe Asn Asp Tyr 20

Ala Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val 40 35

Gly Gly Ile Ile Pro Lys Phe Gly Lys Ala Lys Tyr Ala Gln Lys Phe 60 50

Gln Gly Arg Leu Thr Ile Ser Gly Asp Lys Ser Thr Ser Thr Ala Tyr 1144

65 70 75 80

Met Glu Leu Arg Ser Leu Thr Ser Asp Asp Thr Ala Val Tyr Tyr Cys $85 \hspace{1cm} 90 \hspace{1cm} 95$

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 105 110

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser $165 \\ 170 \\ 175$

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu $180\,$

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205

Ser Gly Asn Pro Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 225

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 980

<211> 248

<212> PRT <213> Homo sapiens

<400> 980

*400> 980
His Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1
5
10
15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 35 40 45

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe $100 \,$ $105 \,$ $110 \,$

Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 \$120\$

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ser Glu Leu Thr 130 135 140

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr 145 \$150\$

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln Gln 165 $$170\$

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg $180\,$

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr 195 200 205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr 210 215 220

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly 225 230 235

Gly Thr Lys Leu Thr Val Leu Gly

<210> 981 <211> 254

<211> 254 <212> PRT

<213> Homo sapiens

<400> 981

Gln Val Gln Leu Val Gln Ser Gly Gly Gly Val Val Gln Pro Gly Arg

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr 20 25 30

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val 50 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr $_{65}$ $$ 70 $$ 75 $$ 80

Leu Gln Met Asn Ser Leu Arg Ala Gly Asp Thr Ala Val Tyr Tyr Cys \$85\$

Ala Arg Asp Arg Gly Tyr Tyr Asp Ile Leu Thr Gly Tyr Tyr Arg Gly $100 \ \ 105 \ \ 110$

His Gly Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser 115 , \$120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln 130 135 140

Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser 145 $$ 150 $$ 155 $$ 160

Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn $165 \\ 170 \\ 175$

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met 180 185 190

Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser 195 $200 \,$ 205

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln $210 \ \ 215 \ \ 220$

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser 1147

225 230 235 240

Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 982 <211> 251 <212> PRT

<213> Homo sapiens

<400> 982

Gin Val Gin Leu Val Gin Ser Gly Gly Gly Val Val Gin Pro Gly Gly 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr 20252530

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ala Phe Ile Arg Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val $50 \\ 60 \\ 60$

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr $65 \hspace{1.5cm} 70 \hspace{1.5cm} 75 \hspace{1.5cm} 80$

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Lys Asp Leu Pro Tyr Tyr Asp Ile Leu Thr Gly Tyr Ser Leu Thr $100 \ 105 \ 110$

Ser Gly Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser 130 135

Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val 145 150 155 160

Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp 165 170 175

Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys $180 \,$ $185 \,$.

Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser 195 200 205

Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu 210 \$215\$

Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val 225 230 235 240

Phe Gly Gly Gly Thr Lys Pro Thr Val Leu Gly $245\ \ \,$ 250

<210> 983 <211> 254

<211> 234 <212> PRT

<213> Homo sapiens

 $<\!400\!>983$ Ghn Val Ghn Leu Gln Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg 1 10 5 10 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr $20 \ 25 \ 30$

Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr $65 70 75$. $ 75$ 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Glu Glu Gly Phe Tyr Asp Ile Leu Thr Gly Tyr Tyr Gly Pro $100 \ 105 \ 110 \ .$

Gly Tyr Phe Asp Tyr Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser 115 $$120\$

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln $_{130}^{\rm Gly}$ Gly Ser Gln $_{140}^{\rm Gly}$

Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser 1149

145 150 155 160

Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn 165 170 175

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met 180 185 190

Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser 195 200 205

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln 210 215 220

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser 225 230 235 240

Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 984

<211> 248

<212> PRT

<213> Homo sapiens

<400> 984

Lys Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 $$ 10 $$ 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met \$35\$ \$40\$ \$45\$

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr $65 \hspace{1.5cm} 70 \hspace{1.5cm} 75 \hspace{1.5cm} 80$

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys \$85\$

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe $100 \\ 100 \\ 105 \\ 110$

Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr 130 135 140

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr 145 150 155 160

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln 165 170 175 175

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Tyr Asn Arg $180 \,$ $185 \,$ $190 \,$

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr 195 200 205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr 210 215 220

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly 225 \$230\$

Gly Thr Lys Leu Thr Val. Leu Gly

<210> 985 <211> 247

<211> 247 <212> PRT

<213> Homo sapiens

<400> 985

Gln Val Gln Arg Val Val Lys Pro Ser Gln Thr Leu Ser Leu Thr Cys

1 5 10 15

Ala Ile Ser Gly Asp Ser Val Ser Ser Thr Ser Ala Ala Trp Asn Trp 20 25 30

Ile Arg Gln Ser Pro Ser Arg Gly Leu Glu Trp Leu Gly Arg Thr Tyr 35 40 45

Ile Ser Ile Lys Pro Asp Thr Ser Glu Asn His Phe Ser Leu Gln Leu

65 70 75 80

Gly Tyr Asp Ile Leu Thr Gly Tyr Ser Lys Phe Leu Asp Tyr Trp Gly $100 ext{ } 105$

Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala 130 140

Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly 145 \$150\$

Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln 165 170 175

His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg 180 185 190

Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr 195 200 205

Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr 210 220

Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly 225 230 235

Thr Lys Leu Thr Val Leu Gly 245

<210> 986

<211> 251 <212> PRT

<213> Homo sapiens

<400> 986 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met \$35\$

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 50

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe \cdot 100 \cdot 105 \cdot 110

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu \cdot 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Glu Gln Ser Ile Thr Ile 145 150150155

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu $180 \,$ $185 \,$ $190 \,$

Gly Ser Lys arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys $195 \hspace{1cm} 200 \hspace{1cm} 205 \hspace{1cm}$

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val $225 \hspace{1.5cm} 230 \hspace{1.5cm} 235 \hspace{1.5cm} 240 \hspace{1.5cm}$

Phe Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 987 <211> 248

<211> 248 <212> PRT .

<213> Homo sapiens

<400> 987

Gly Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 35 40 45

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe $100 \\ 0.05$

Asp Ile Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 \$120\$

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr 145' \$150\$

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Ile Arg 180 185 190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr 195 200 205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr 210 215 220

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly
1154

225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 988 <211> 252 <212> PRT <213> Homo sapiens

<400> 988 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg 1 5 10

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr $20 \hspace{1cm} 25 \hspace{1cm} 30 \hspace{1cm}$

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val \$35\$

Ala Leu Ile Trp Tyr Asp Gly Ser Lys Lys Tyr Tyr Ala Asp Ser Val 50 60

Lys Gly Arg Phe Thr Val Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr $65 70 75 75$

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys $85 \hspace{1cm} 90 \hspace{1cm} 95$

Ala Arg Ser His Tyr Asp Ile Leu Thr Gly Leu Asn Tyr Trp Tyr Phe $100 \,$ $\,$ $100 \,$

Asp Leu Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Lys Val Thr Ile 145 150 150 155

Ser Cys Ser Gly Ser Thr Ser Asn Ile Gly Asn Asn Tyr Val Ser Trp \$165\$ \$170\$ \$175\$

Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Asp Val 180 185 190

Ser Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser 195 200 205

Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Val Gln Ala Glu Asp Glu 210 215 220

Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser Leu Arg Gly Ser Arg 225 230 230

Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly 245 250

<210> 989 <211> 253

<212> PRT <213> Homo sapiens

<400> 989

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr $20 \hspace{1cm} 25 \hspace{1cm} 30$

Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Phe Glu Asp Thr Ala Val Tyr Tyr Cys \$85\$ 90 \cdot 95

Ala Arg Glu Arg Ala Asp Tyr Asp Ile Leu Thr Gly Tyr Tyr Phe Tyr 100 105 110

Asp Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly 115 \$120\$

Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser 130 135 140

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile 1156 145 150 155 160

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr \$165\$

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile 180 185 190

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly 195 200 205

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala 210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr 225 230 235 240

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly

<210> 990

<211> 251

<212> PRT

<213> Homo sapiens

<400> 990
Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
1 15

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Ser 20 25 30

Ser Tyr Tyr Trp Gly Trp Tle Arg Gln Pro Pro Gly Lys Gly Leu Glu $_{\mbox{35}}$

Trp Ile Gly Ser Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr Asn Pro Ser $50 \ \ \, 55 \ \ \,$

Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe 65 70 75 80

Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr 85 90 95

Cys Ala Arg Phe Arg Tyr Asp IIe Leu Thr Ser Tyr Tyr Tyr Gly Met \$100\$

Asp Val Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly 120 Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu 135 140 130 Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 150 155 Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 170 Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 200 205 Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 215 Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 230 235 Phe Glv Glv Glv Thr Lvs Leu Thr Val Leu Glv <210> 991 <211> 251 <212> PRT <213> Homo sapiens Trp Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Val Thr Phe Asn Asp Tyr 20 25 Ala Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val 35 40 45 Gly Gly Ile Ile Pro Lys Phe Gly Lys Ala Lys Tyr Ala Gln Lys Phe 50 55 60

Gln Gly Arg Leu Thr Ile Ser Gly Asp Lys Ser Thr Ser Thr Ala Tyr 1158

65 70 75 80

Met Glu Leu Thr Ser Leu Thr Ser Asp Asp Thr Ala Val Tyr Tyr Cys \$95\$

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe $100 \\ 105 \\ 110$

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu 130 135

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 $$150\ \ \, 155\ \ \, 160$

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 992

<211> 251 <212> PRT

<213> Homo sapiens

 $<\!400>992$ Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Leu Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr $20 \ 25 \ 30$

Gly Ile his Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met $$^{\circ}$$ 35 $$^{\circ}$$ 40 $$^{\circ}$$

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys $85 \hspace{1cm} 90 \hspace{1cm} 95$

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe $100 \,$ $\,$ $105 \,$ $\,$ $\,$ $110 \,$ $\,$

Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 \$120\$

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 \$135\$

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 \$170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu $180 \,\,$ $185 \,\,$ $190 \,\,$

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys $195 \hspace{1cm} 200 \hspace{1cm} -\hspace{1cm} 205 \hspace{1cm}$

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 993 <211> 250

<211> 250 <212> PRT

<213> Homo sapiens

<400> 993 Gln Val Gln Leu Gln Gln Trp Gly Ala Arg Val Val Lys Pro Ser Glu 1 5 10 15

Thr Leu Ser Leu Thr Cys Ala Val Tyr Gly Gly Ser Phe Ser Gly Tyr $20 \hspace{1cm} 25 \hspace{1cm} 30 \hspace{1cm}$

Gln Trp Asn Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile 35 40 45

Gly Glu Ile Asn His Ser Gly Ser Thr Asn Tyr Asn Pro Ser Leu Asn 50 55 60

Ser Arg Val Thr Ile Ser Gln Asp Thr Ser Asn Asn Gln Phe Ser Leu 65 70 75 80

Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala $85 \hspace{1.5cm} 90 \hspace{1.5cm} 95$

Arg Gly Arg Arg Tyr Asp Ile Leu Thr Gly Tyr Tyr Tyr Tyr His His $100 \\ 105$

Gly Met Asp Val Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu 130 135 140

Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg 145 150 150 160

Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe \$155\$

Gln Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn $180 \ \ 185 \ \ 185$

Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly 195 200 205

Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala 210 \$215\$

Asp Tyr Tyr Cys His Ser Arg Asp Ser Ser Gly Asn His Val Leu Phe

225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 994 <211> 253

<213> Homo sapiens

<220> <221> Site

<222> (62) <223> Xaa equals any of the naturally occurring L-amino acids

<400> 994

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Leu Ser Ser Ser 25 3.0 20

Thr Val Asn Tro Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Tro Met 35 40

Gly Arg Ile Ile Pro Met Leu Gly Ile Val Lys Tyr Ala Xaa Lys Phe 60 50 55

Gln Gly Arg Val Met Ile Thr Ala Asp Lys Ser Met Thr Ser Ala Tyr 75 80

Ile Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 . 90

Ala Arg Gly His Tyr Asp Ile Leu Thr Gly Tyr Asp Asp Tyr Tyr 100 105

Gly Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly 120 125

Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser 135 140

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile 160 150 155

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr 170 165

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile 180 $$185\$

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly 195 200 205

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala 210 215 220

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 995

<211> 243

<212> PRT <213> Homo sapiens

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<400> 995
Gln Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Val Ser Ser Asn 20 25 30

Tyr Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ser Val Ile Tyr Ser Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val Lys 50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu 65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Ser His Asp Ile Leu Thr Gly Phe Asp Tyr Trp Gly Arg Gly Thr Met 100 105 110

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly 115 120 125

Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly 130 135 140

Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp 145 150 155 160

Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys $165 \\ 170 \\ 175$

Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val 180 185 190

Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr \$195\$

Tle Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser 210 220

Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr 225 230 235 240

Val Leu Gly

<210> 996

<211> 247

<212> PRT <213> Homo sapiens

<400> 996 Gln Val Thr Leu Lys Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg $\frac{1}{1}$ 5 $\frac{10}{10}$

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val \$35\$

Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Ser Gly Tyr Asp Ile Leu Thr Gly Tyr Leu Tyr Gly Met Asp $100 \hspace{1.5cm} 105 \hspace{1.5cm} 110$

Val Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln 130 135 140

Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys $145 \hspace{1.5cm} 150 \hspace{1.5cm} 155 \hspace{1.5cm} 160 \hspace{1.5cm}$

Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys \$165\$

Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg Pro 180 $\,$ $\,$ 185 $\,$ $\,$ 190

Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala $195 \hspace{1.5cm} 200 \hspace{1.5cm} 205 \hspace{1.5cm}$

Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr 210 215 220

Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly Gly 225 230 235

Thr Lys Leu Thr Val Leu Gly 245

<210> 997 <211> 251

<211> 251 <212> PRT

<213> Homo sapiens

<400> 997
Glu Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asp His

Tyr Met Asp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val $_{\rm 35}$ $_{\rm 40}$ $_{\rm 45}$

Gly Arg Ala Arg Asn Lys Ala Asn Ser Tyr Thr Ile Glu Tyr Ala Ala

Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Ser 65 70 75 80

Leu Phe Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr $85 \hspace{0.5cm} 90 \hspace{0.5cm} 95 \hspace{0.5cm}$

Tyr Cys Ala Arg Ala Pro Tyr Asp Ile Leu Thr Gly Tyr Ser Asp Tyr 100 105 110

Tyr Gly Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser $115 \\ 120 \\ 125$

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser 130 135

Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Ser Gly Gln Thr Val 145 150150155155

Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp \$165\$ \$170\$

Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys $180 \ \ \,$ 185 $\ \ \,$ 190.

Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser 195 200 205

Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu 210 $$\mu \to 220$$

Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val 225 230 235

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly $245\,.$ $250\,$

<210> 998 <211> 251

<211> 251 <212> PRT

<213> Homo sapiens

<400> 998

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Arg Lys Pro Gly Ala 1 10 15

Ser Val Arg Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser Arg Tyr 2025

Pro Ile His Trp Val Arg Gln Ala Pro Gly Gln Arg Leu Glu Trp Met

Gly Trp Ile Asp Ser Ala Lys Gly His Ile Lys Tyr Ser Gln Lys Phe 50 60

Gln Gly Arg Leu Thr Leu Thr Arg Asp Thr Ser Ala Asn Thr Ala Tyr $65 7075$

Met Glu Leu Thr Ser Leu Thr Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe $100 \\ 105 \\ 110$

Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 \$150\$

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

. 1167

<210> 999 <211> 247 <212> PRT <213> Homo sapiens <400> 999 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 1.0 Ser Val Lys Val Ser Cys Arg Ala Ser Gly Tyr Thr Phe Thr Arg Tyr 30 20 25 Ser Thr His Trp Val Arg Gln Ala Pro Gly Gln Arg Phe Glu Trp Met 35 40 45 Gly Trp Ile Asn Gly Gly Asn Gly Asn Thr Lys Tyr Ser Gln Thr Phe 50 55 60 Gln Gly Arg Ile Thr Ile Thr Arg Asp Thr Pro Ala Ser Thr Val Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Met Tyr Tyr Cys 85 90 95 Ala Arg Gly Asp Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Gly Val Asp 100 105 110 Val Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln 135 140 Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys 150 Gln Gly Asp Ser Leu Lys Ser Tyr Tyr Thr Asn Trp Phe Gln Gln Lys 165 170 175 Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys Arg Pro 180 185

Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala 195 200200205

Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr 210 ' 215 220

Cys His Ser Arg Asp Ser Ser Gly Asn His Val Leu Phe Gly Gly Gly 225 230 235

Thr Lys Leu Thr Val Leu Gly 245

<210> 1000

<211> 253

<212> PRT

<213> Homo sapiens

<400> 1000

Gln Val Gln Leu Val Gln Ser Gly Gly Gly Glu Val Gln Pro Gly Arg $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr $20 \hspace{1cm} 25 \hspace{1cm} 30 \hspace{1cm}$

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val $35 \ \ 40 \ \ 45$

Ser Val Thr Tyr Ser Gly Gly Asn Thr Asn Tyr Ala Asp Ser Val Arg 50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Pro Lys Asn Thr Leu Tyr Leu 65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Met Asp Val Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser 130 135 140

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile 145 150 155 160

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr 165 170 175

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile 180 $$185\$

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly 195 200 205

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala 210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr 225 230 235 240

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Asp 245 250

<210> 1001

<211> 254

<212> PRT

<213> Homo sapiens

 $<\!400>1001$ Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Leu Ser Asn Phe 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met \$35\$

Gly Ile Ile Asn Pro Ser Gly Gly Asn Thr Val Tyr Ala Gln Lys Phe $50 \ \ \, 55$

Gln Gly Arg Val Ser Met Thr Arg Glu Thr Ser Thr Ser Thr Val Tyr $65 \hspace{1cm} 70 \hspace{1cm} 75 \hspace{1cm} 80$

Met Glu Met Arg Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Asp Gly Tyr Tyr Asp Ile Leu Thr Gly Gly Phe Tyr Tyr Tyr 100 105 110

Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser $115 \\ 120 \\ 125$

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln 130 135 140

Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser 145 \$150\$

Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn 165 170 175

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met 180 185 190

Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser 195 200 205

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln 210 215 220

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser 225 230 235

Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Arg 245 250

<210> 1002

<211> 246

<212> PRT

<213> Homo sapiens

<400> 1002

Glu Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Lys Pro Gly Gly 1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Phe Thr Val Ser Ser Asn 20 25 30

Tyr Met Ser Trp Ile Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ser Ser Ile Arg Gly Ser Gly Ser Ala Val Tyr Tyr Ala Asp Ser Val

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Pro Ala Tyr Tyr Asp Ile Leu Thr Gly Leu Asp Tyr Trp Gly Arg $100 \\ 105 \\ 110$

- Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly 115 $$120\$
- Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala Ser
- Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr 145 \$150\$
- Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His $165 \hspace{1.5cm} 170 \hspace{1.5cm} 170 \hspace{1.5cm} 175 \hspace{1.5cm}$
- Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro 180 185 190
- Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala 195 200 205
- Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Clu Ala Asp Tyr Tyr 210 215 220
- Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly Thr 225 \$230\$
- Lys Leu Thr Val Leu Gly 245

<210> 1003

<211> 253 <212> PRT

<213> Homo sapiens

<400> 1003

 $<\!400>1003$ Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly 1 $$ 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr 20 25 30

Trp Met Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ala Asn Ile Lys Gln Asp Gly Ser Glu Lys Tyr Tyr Val Asp Ser Val 50 55 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr 65 70 75 80 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 90 95 85 Ala Arg Asp Gln Gln Tyr Asp Ile Leu Thr Gly Tyr Tyr Ile His Tyr 100 105 Gly Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly 115 120 125 Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser 130 135 140 Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile 145 150 155 160 Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr 170 175 165 Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile 180 185 Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala 215

225 230 235

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1004 <211> 248

<212> PRT <213> Homo sapiens

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 $<\!400>1004$ Glu Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg 1 5 10 15

		,													
Ser	Arg	Arg	Leu 20	Ser	Cys	Ala	Ala	Ser 25	Gly	Phe	Thr	Phe	Ser 30	Tyr	His
Ser	Met	His 35	Trp	Val	Arg	Gln	Ala 40	Pro	Gly	Lys	Gly	Leu 45	Glu	Trp	Val
Ala	Ala 50	Ile	Ser	Phe	Asp	Gly 55	Ser	Glu	Lys	Tyr	Tyr 60	Ala	Asp	Ser	Val
Gln 65	Gly	Arg	Phe	Thr	Val 70	Ser	Arg	Asp	Asn	Ser 75	Lys	Asn	Thr	Leu	Tyr 80
Leu	Gln	Met	Asn	Ser 85	Leu	Arg	Ala	Glu	Asp 90	Thr	Ala	Val	Tyr	Tyr 95	Cys
Ala	Arg	Asp	Gln 100		Asp	Leu	Leu	Leu 105	Met	Asp	His	Asn	Tyr 110	Tyr	Met
Asp	Val	Trp 115	Gly	Gln	Gly	Thr	Leu 120	Val	Thr	Val	Ser	Ser 125	Gly	Gly	Gly
Gly	Ser 130	Gly	Gly	Gly	Gly	Ser 135	Gly	Gly	Gly	Gly	Ser 140	Asp	Ile	Val	Met
Thr 145		Ser	Pro	Ser	Thr 150		Ser	Ala	Ser	Val 155		Asp	Arg	Val	Thr 160
Ile	Thr	Cys	Arg	Ala 165		Gln	. Gly	Ile	Ser 170	Ser	Trp	Leu	Ala	Trp 175	Tyr
Gln	. Gln	Lys	Pro 180		Arg	Ala	Pro	Lys 185		Leu	Ile	Tyr	Lys 190	Ala	Ser
Thr	Leu	Glu 195	ser	Gly	val	Pro	Ser 200		Phe	Ser	Gly	Ser 205	Gly	Ser	Gly
Thr	Asp 210		Thr	Leu	Thr	11e 215	e Ser	Ser	Leu	Glr	220	Glu	Asp	Phe	Ala
Thr 225		Туз	: Cys	Glr	1 Glr 230	ser	Tyr	Ser	Thr	235	Trp	Thr	Phe	: Gly	7 Gln 240
Gl ₃	Thi	: Lys	s Leu	: G1: 24:		Lys	a Arg	ı							

<210> 1005 <211> 251 <212> PRT <213> Homo sapiens <400> 1005 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 5 10 Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Val Asn Tyr 20 Gly Val His Trp Val Arg Gln Ala Pro Gly Gln Arg Leu Glu Trp Met 35 40 Gly Trp Ile Asn Ala Gly Asn Gly Asn Thr Lys Tyr Ser Gln Lys Phe 55 60 50 Gln Glv Arg Val Thr Ile Thr Arg Asp Thr Ser Ala Ser Thr Ala Tyr 65 70 Met Glu Leu Ser Arg Leu Thr Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 8.5 90 95 Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 105 Asp Ile Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 120 115 Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu 130 . 135 Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 155 160 150 Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1006

<211> 253

<212> PRT <213> Homo sapiens

<400> 1006

Gly Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Val Ser Ser Asn 20 25 30

His Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ser Val Thr Tyr Ser Gly Gly Asn Thr Asn Tyr Ala Asp Ser Val Arg

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu 65 70 75 80

Gln Met Asn Gly Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Glu Gly Ser Tyr Asp Ile Leu Thr Gly Tyr Tyr Val Gly Val Gly 100 \$105\$

Arg Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser 130 135 140

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile 145 150150155

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr 165 170 175

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile 180 185 190

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly 195 200 205

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala 210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr 225 230 235

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly \$245\$

<210> 1007

<211> 253

<212> PRT

<213> Homo sapiens

<220>

<221> Site

<222> (175)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> Site

<222> (209) <223> Xaa equals any of the naturally occurring L-amino acids

 $<\!400>1007$ Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Fro Gly Gly 1 $$ 5 $$ 10

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr

Trp Met Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ala Asn Ile Lys Gln Asp Gly Ser Glu Lys Tyr Tyr Val Asp Ser Val 50 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 . 95

Ala Arg Asp Gln Gln Tyr Asp Ile Leu Thr Gly Tyr Tyr Ile His Tyr 100 105 110

Gly Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly
115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser 130 135 140

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile 145 150 155 160

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Xaa Tyr 165 170 175

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile 180 185 190

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly 195 200 205

Xaa Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala 210 \$215\$

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr 225 230 235 240

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly $245\,$

<210> 1008 <211> 248

<211> 248 <212> PRT

<213> Homo sapiens

<400> 1008

Gin Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr $20 \ 25 \ 30$

Gly Ile Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met $35 \ \ \, +40 \ \ \, 45$

Gly Ser Ile Ile Pro Ser Phe Ala Thr Ala Asn Tyr Ala Gln Lys Phe $_{50}$

Arg Gly Arg Leu Thr Ile Thr Ala Asp Glu Ser Thr Thr Thr Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Val Tyr Tyr Cys . 85 90 90

Ala Arg Thr Lys Tyr Asp Ile Leu Thr Gly Tyr Tyr Tyr Tyr Met $100 \\ 105 \\ 110$

Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser Gly Gly Gly 115 \$120\$

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Asp Ile Gln Met 130 135 140

Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Ile Gly Asp Lys Val Thr 145 \$150\$

Ile Thr Cys Arg Ala Ser Glu Gly Ile Tyr His Trp Leu Ala Trp Tyr $165 \ \ \ \ 170 \ \ \ \ 175$

Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Lys Ala Ser $180 \,$ $185 \,$ $190 \,$

Ser Leu Ala Ser Gly Ala Pro Ser Arg Phe Ser Gly Ser Gly 195 200 205

Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Asp Asp Phe Ala $210 \hspace{1.5cm} 215 \hspace{1.5cm} 220 \hspace{1.5cm}$

Thr Tyr Tyr Cys Gln Gln Tyr Ser Asn Tyr Pro Leu Thr Phe Gly Gly 225 \$230\$

Gly Thr Lys Leu Glu Ile Lys Arg 245

<210> 1009

<211> 249

<212> PRT

<213> Homo sapiens

<400> 1009 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Val Gly Ser Phe Asn His Ala 20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 \$40\$

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 50 55 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met 65 70 75 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp $100 \,$ $\,$ $105 \,$ $\,$ $\,$ $110 \,$

Met Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Leu 130 135 140

Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile 145 \$150\$

Ser Cys Ser Gly Ser Tyr Ser Asn Ile Gly Thr Asn Asp Val Phe Trp \$165\$

Tyr Gln Gln Leu Pro Gly Thr Ala Pro Gln Leu Leu Ile Tyr Arg Asn $180 \,\,$

Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser 195 200 205

Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Arg Ser Glu Asp Glu 210 215 220

Ala Asp Tyr Tyr Cys Ala Ala Trp Asn Asp Arg Gln Ile Val Phe Gly $225 \hspace{1.5cm} 230 \hspace{1.5cm} 235 \hspace{1.5cm} 240$

Gly Gly Thr Lys Leu Thr Val Ile Gly

<210> 1010 <211> 251 <212> PRT <213> Homo sapiens <400> 1010 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 5 10 Ser Val Lys Val Ser Cys Arg Ala Ser Leu Gly Ser Phe Asn His Ala 2.0 Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 40 35 Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 55 50 Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met 70 Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp 100 105 110 Met Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 125 , 115 120 Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Ala Leu 135 Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 155 160 Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Ala Tyr Asp Tyr Val Ser 175

Val Ser Asn Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys \$195\$ 200 \$205\$

Trp Tyr Gln His His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Asp

185 - 190

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 220

Glu Ala Asp Tyr Tyr Cys Asn Ser Tyr Thr Asn Ser Pro Thr Tyr Val 225 230 235 240

Phe Gly Thr Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1011

<211> 251 <212> PRT

<213> Homo sapiens

<400> 1011

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala 20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly $35 \hspace{1cm} 40 \hspace{1cm} 45$

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln $50 \ \ 55 \ \ 60$

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met 65 70 75 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Alá Val Tyr Tyr Cys Ala 85 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp $100 \hspace{1.5cm} 105 \hspace{1.5cm} 110 \hspace{1.5cm}$

Met Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 . . 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Leu 130 135 140

Thr Gln Pro Ser Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile 145 150 155 160

Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Asn Trp \$165\$ \$170\$ \$175\$

Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Ser Asn $180 \ \ \, 185 \ \ \, 190$

Asn Glu Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser 195 200 205

Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp Glu 210 215 . 220

Ala Asp Tyr Tyr Cys Val Ala Trp Asp Asp Ser Leu Asn Gly Trp Val 225 230 235 240

Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly 245 250

<210> 1012

<211> 255

<212> PRT <213> Homo sapiens

<400> 1012
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
1 1 5 10
15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Arg Phe Ser Arg Tyr $20 \\ 25 \\ 30$

Ala Thr Thr Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met $35 \ \ 40 \ \ 45$

Gly Gly Ile Ile Pro Leu Phe Gly Thr Thr Lys Tyr Ala Gln Arg Leu 50 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Asn Thr Ala Phe $_{65}$ $$ 70 $$ 75 $$ 80

Met Glu Leu Arg Ser Leu Arg Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Thr Thr Asp Arg Phe Gly Ala Lys Asp Val Thr Ser Arg Trp Gly $100\,$

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Ser 135 130 Val Leu Thr Gln Pro Pro Ser Val Ser Gly Ala Pro Gly Gln Arg Val 145 150 Thr Val Ser Cys Thr Gly Ser Ser Ser Asn Ile Gly Ala Gly Tyr Gly 165 Val His Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile 185 190 180 Tyr Gly Asn Thr Asn Arg Leu Ser Gly Val Pro Asp Arg Phe Ser Gly 195 200 205 Ser Gln Ser Gly Ser Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln Ala 215 . 220 210 Asp Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser Leu Ser 235 240 230 225 Gly Ser Phe Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly 245 250 <210> 1013 <211> 251 <212> PRT <213> Homo sapiens <400> 1013 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 5 10 Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala 25 . 30 20 Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met $65 70 75 $

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp $100 \hspace{1.5cm} 105 \hspace{1.5cm} 110 \hspace{1.5cm}$

Met Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Ala Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Ala Tyr Asp Tyr Val Ser 165 170 175

Trp Tyr Gln His His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Asp 180 185 190

Val Ser Asn Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205

Glu Ala Asp Tyr Tyr Cys Asn Ser Tyr Thr Asn Ser Pro Thr Tyr Val 225 230 235 240

Phe Gly Thr Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1014 <211> 250

<211> 250 <212> PRT

<213> Homo sapiens

<400> 1014

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala 20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly $35 \ \ 40 \ \ 45$

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln $_{50}$

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met $65 70 75 80$

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala $85 \hspace{0.5cm} 90 \hspace{0.5cm} 95$

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp 100 105

Met Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Ser Ser Glu 130 135 140

Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg 145 \$150\$

Ile Thr Cys Gln Gly Asp Met Phe Arg Asn Tyr Tyr Ala Thr Trp Tyr 165 $$170\$

Gln Gln Arg Pro Gly Gln Ala Pro Val Pro Val Leu Tyr Gly Gln Asn 180 185 190

Asn Arg Pro Ser Gly Tie Pro Glu Arg Phe Ser Gly Ser Arg Ser Gly 195 200 205

Lys Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala $210 \ \ 215 \ \ \ 220$

Asp Tyr Tyr Cys Gly Ser Arg Asp Ser Ser Gly Ser His Leu Leu Phe $225 \\ \hspace*{1.5cm} 230 \\ \hspace*{1.5cm} 235 \\ \hspace*{1.5cm} 240 \\ \hspace*{1.5cm}$

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1015

<211> 256 <212> PRT

<213> Homo sapiens

<400> 1015 Glu Val Gln Leu Val Glu Thr Gly Gly Gly Val Val Gln Pro Gly Gly 1 5 10 15

Ser Leu Arg Leu Ser Cys Val Gly Ser Gly Phe Thr Phe Ser Ser Tyr \$20\$

- Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Met 35 40 45
- Ala Val Ile Ser Ser Asp Gly Thr Lys Arg Tyr Tyr Ala Asp Ser Val 50 60
- Gln Gly Arg Leu Thr Ile Ser Arg Asp Asn Phe Val Lys Thr Leu Ser 65 70 75 80
- Leu Glu Met His Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys $85 \hspace{1cm} 90 \hspace{1cm} 95$
- Ala Lys Asp Arg Gly Gly Asn Tyr Asp Ile Leu Thr Gly Tyr Tyr Phe $100 \hspace{1cm} 105 \hspace{1cm} 110 \hspace{1cm}$
- His His Gly Val Asp Val Trp Gly Arg Gly Thr Met Val Thr Val Ser 115 120 125
- Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser 130 140
- Ala Gln Ser Val Val Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly 145 150 160
- Gln Lys Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser 165 $$170\$
- Asn Tyr Val Ser Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu 180 185 190
- Leu Ile Tyr Asp Asn Asn Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe 195 200 205
- Ser Gly Ser Lys Ser Gly Thr Ser Ala Thr Leu Gly Ile Ala Gly Leu 210 220
- Gln Thr Gly Asp Glu Ala Asp Tyr Tyr Cys Gly Thr Trp Asp Gly Ser 225 230 235 235
- Leu Ser Gly Gly Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250 250

<210> 1016 <211> 252 <212> PRT <213> Homo sapiens <400> 1016 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala 20 Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 40 Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 55 Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met . 75 65 70 Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 90 95 Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp 110 100 1.05 Met Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 125 Ser Gly Gly Gly Ser Gly Gly Gly Ser Ala Leu Ser Tyr Val 135 Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr 150 155 Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn Tyr Val Phe 170

Trp Tyr Gln Gln Leu Pro Gly Aía Ala Pro Lys Leu Leu Ile Tyr Arg 180 185 190

Asn Ser Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Thr

Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Arg Ser Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ala Ala Arg Asp Asp Ser Leu Arg Gly Pro $225 \hspace{1cm} 230 \hspace{1cm} 235 \hspace{1cm} 240 \hspace{1cm}$

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1017

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1017

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Thr Ser Tyr 20 25 30

Ala Phe Asn Trp Val Arg Arg Ala Pro Gly Gln Gly Leu Glu Trp Leu $35 \hspace{1cm} 40 \hspace{1cm} 45$

Gly Ser Ile Val Pro Val Phe Asn Thr Lys Thr Phe Ala Arg Lys Phe

Gln Gly Arg Val Thr Leu Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr 65 70 75 80

Leu Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys \$85\$ 90 95

Ala Ser Arg Tyr Gly Asp Pro Phe Tyr Tyr Tyr Tyr Tyr Met Asn Val $100 \ 105$

Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser 115 120 125 .

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Leu Thr

Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Ile Ile Ser 145 150 155 160

Cys Ser Gly Ser Ala Ser Asn Ile Ala Ala Asn Pro Val Asn Trp Tyr \$165\$ \$170\$

Gln Gln Phe Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Ser Asn Asn $180 \hspace{1.5cm} 185 \hspace{1.5cm} 185 \hspace{1.5cm} 190 \hspace{1.5cm}$

Glu Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly
195 200 205

Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala 210 225 220

Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu Asn Ala Val Val Phe 225 230 235

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 . $250\,$

<210> 1018

<211> 247

<212> PRT

<213> Homo sapiens

<400> 1018

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 10 - 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala $20 \\ 25 \\ 30$

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Ket Gly 35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln $50 \ \ 55 \ \ 60$

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met $65 70 75$.

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala $85 \hspace{1.5cm} 90 \hspace{1.5cm} 95$

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp $100 \ \ 105 \ \ 110$

Met Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Leu 130 140

Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln Thr Ala Ser Ile 145 150150155

Thr Cys Ser Gly Asp Asn Leu Gly Asn Lys Tyr Val Tyr Trp Tyr Gln 165 170 175

Gln Lys Ala Gly Gln Ser Pro Val Leu Val Ile Tyr Gln Asp Thr Lys 180 185 190

Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser Asn Ser Gly Asn 195 200 200 205

Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Thr Met Asp Glu Ala Asp 210 215 220

Tyr Tyr Cys Gln Ala Trp Asp Asn Asn Ile Val Val Phe Gly Gly Gly 225 $$ 230 $$ 235 $$ 240

Thr Lys Leu Thr Val Leu Gly 245

<210> 1019

<211> 249

<212> PRT

<213> Homo sapiens

<400> 1019

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala 20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 40 45

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met $65 \hspace{1.5cm} 70 \hspace{1.5cm} 75 \hspace{1.5cm} 80$

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp $100 \ \ 110$

Met Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Gly Gly Gly Gly Ser Ala Gln Pro Val Leu 130 135 140

Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Lys Thr Ala Arg Met 145 150 150 160

Thr Cys Gly Gly Asp Asn Ile Gly Asn Lys Gly Val His Trp Tyr Gln 165 170 175

Gln Lys Pro Gly Gln Ala Pro Val Val Val Phe Tyr Tyr Gly Arg Asp \$180\$

Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser Ser Ser Gly Asn 195 200 205

Tyr Phe Cys Gln Val Trp Asp Ser Ser Ser Asp His Ala Val Phe Gly 225 230 235 240

Gly Gly Thr Gln Leu Thr Val Leu Ser 245

<210> 1020 <211> 251

<211> 231

<213> Homo sapiens

<400> 1020 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala $20 \\ 25 \\ 30$

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 50 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met 65 70 75 $$ 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp $100 \hspace{1.5cm} 105 \hspace{1.5cm} 110 \hspace{1.5cm}$

Met Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125 .

Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr 145 \$150\$

Ile Ser Cys Ser Gly Ser Arg Ser Asp Ile Gly Asn Asn Asp Val Asn 165 170 175

Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Ser 180 185 190

Ser Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys 195 200 205

Glu Ala Asp Tyr Tyr Cys Ala Thr Trp Asp Asp Ser Leu Lys Gly Val $225 \hspace{1.5cm} 230 \hspace{1.5cm} 235 \hspace{1.5cm} 240 \hspace{1.5cm}$

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1021

<211> 252

<212> PRT <213> Homo sapiens

<400> 1021

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala $20 \hspace{1.5cm} 25 \hspace{1.5cm} 30 \hspace{1.5cm}$

- Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 40 45
- Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 50 60
- Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met 65 70 75 80
- Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95
- Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp $100 \hspace{1.5cm} 105 \hspace{1.5cm} 110 \hspace{1.5cm}$
- Met Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125
- Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Ser Tyr Glu 130 135 140
- Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr 145 150 150 155
- Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn Tyr Ile Tyr 165 170 175
- Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Gly Arg \$185\$
- Tyr Asp Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys
- Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Arg Ser Glu Asp 210 215
- Glu Ala Asp Tyr Tyr Cys Ala Thr Trp Asp Asp Ser Leu Ser Gly Trp 225 230 235
- Val Phe Gly Gly Gly Thr Gln Leu Thr Val Leu Ser 245 250

<210> 1022 <211> 250 <212> PRT <213> Homo sapiens <400> 1022 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 5 10 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr 20 25 Ala Phe Asn Trp Val Arg Arg Ala Pro Gly Gln Gly Leu Glu Trp Leu 40 Gly Ser Ile Val Pro Val Phe Asn Thr Lys Thr Phe Ala Arg Lys Phe 50 . 55 60 Gln Gly Arg Val Thr Leu Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr 80 Leu Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85 90 95 Ala Ser Arg Tyr Gly Asp Pro Phe Tyr Tyr Tyr Tyr Tyr Met Asn Val 100 105 Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Ser Ser Glu Leu 135 Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile 150 Thr Cys Gln Gly Asp Ser Leu Arg Lys Tyr Tyr Ala Ser Trp Tyr His 165 170 Gln Lys Pro Gly Gln Ala Pro Val Leu Val Met Tyr Gly Glu Asn Asn 180

Arg Pro Ser Gly Ile Pro Asg Arg Phe Ser Gly Ser Arg Ser Gly Asn 195 200 205

Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp 210 215 220

Tyr Tyr Cys Tyr Ser Arg Asp Ser Ile Ser Asp His Leu Glu Val Phe 225 230 235

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly \$245\$

<210> 1023

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1023

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr 20 25 30

Ala Phe Asn Trp Val Arg Arg Ala Pro Gly Gln Gly Leu Glu Trp Leu 35 40 45

Gly Ser Ile Val Pro Val Phe Asn Thr Lys Thr Phe Ala Arg Lys Phe $50 \hspace{1cm} 55 \hspace{1cm} 60 \hspace{1cm}$

Gin Gly Arg Val Thr Leu Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr 65 70 75 80

Leu Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys $85 \hspace{0.5cm} 90 \hspace{0.5cm} 95$

Ala Ser Arg Tyr Gly Asp Pro Phe Tyr Tyr Tyr Tyr Tyr Met Asn Val $100 \ \ 105 \ \ 110$

Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Leu Thr 130 135 140

Gln Pro Ser Ser Val Ser Gly Ala Pro Gly Gln Arg Val Thr Leu Ser 145 150 155 160

Cys Thr Gly Ser Arg Ser Asn Leu Gly Ala Gly Tyr Asp Val Asn Trp \$165\$ \$170\$

Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Gly Asn 180 180 190

Thr Asn Arg Pro Ser Gly Val Gly Glu Arg Phe Ser Gly Ser Lys Ser 195 200 205

Gly Thr Ser Ala Ser Leu Val Ile Thr Gly Leu Gln Ala Gly Asp Glu 210 215 220

Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser His Ser Ala Arg Val 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1024

<211> 249

<212> PRT <213> Homo sapiens

<400> 1024

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala $20 \ 25 \ 30$

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 \$40\$

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln $50 \ \ 55 \ \ 60$

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met $65 \ 70 \ 75 \ 80$

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala $85 \ \cdot \ 90 \ 95$

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp $100 \,$ $105 \,$ $110 \,$

Met Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Leu 130 135 140

Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Gln Thr Ala Arg Ile 145 $$150\,$

Thr Cys Gly Gly Asn Asn Ile Glu Ser Lys Ser Val His Trp Tyr Gln 165 170 175

Gln Lys Pro Gly Gln Ala Pro Val Leu Val Val Tyr Asp Asp Thr Asp 180 185 190

Ser Ala Thr Leu Ser Ile Ser Arg Val Glu Val Gly Asp Glu Ala Asp 210. 220

Tyr Tyr Cys Leu Val Trp Glu Thr Thr Asn His His Tyr Val Phe Gly 225 230235235

Thr Gly Thr Lys Val Thr Val Leu Gly 245

<210> 1025

<211> 259

<212> PRT

<213> Homo sapiens

<400> 1025

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Ile Asp Asp 20 25 30

Ser Ile Asn Trp Leu Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val \$35\$

Arg Asp Arg Ala Thr Ile Thr Ala Asp Glu Leu Thr Ala Thr Val Phe 65 70 75 80

Leu Glu Leu Thr Ser Leu Arg Ser Asp Asp Thr Ala Leu Tyr Tyr Cys
85 90 95

Ala Arg Ser Ser Pro Pro Lys Trp Tyr Asp Ala Leu Thr Gly His Ser 100 105 110

Ser Tyr His Ser Ala Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr 115 120 125

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly 130 135

Gly Ser Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr 145 150 155

Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Thr Asn Ser Asn Ile \$165\$

Gly Gly Asn Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro $180 \ \ \, 185 \ \ \, 190 \ \ \,$

Arg Leu Leu Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp 195 200 205

Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser 210 215 220

Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Thr Arg Asp 225 \$230\$

Asp Arg Leu Asn Ala His Val Val Phe Gly Gly Gly Thr Lys Val Thr 245 250 255

Val Leu Gly

<210> 1026 <211> 256

<212> PRT

<213> Homo sapiens

<400> 1026 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Ile Asp Asp 20 25 30

Ser Ile Asn Trp Leu Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val

Gly Gly Thr Ile Pro Leu Ala Asn Arg Ala Asn Tyr Ala Gln Lys Phe

Arg Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Ala Thr Val Phe 65 70 75 80

Leu Glu Leu Thr Ser Leu Arg Ser Asp Asp Thr Ala Leu Tyr Tyr Cys $85 \hspace{1cm} 90 \hspace{1cm} 95$

Ala Arg Ser Ser Pro Pro Lys Trp Tyr Asp Ala Leu Thr Gly His Ser $100 \hspace{1cm} 105 \hspace{1cm} 105$

Ser Tyr His Ser Ala Met Asp Val Trp Gly Lys Gly Thr Leu Val Thr 115 120 125

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly 130 135

Gly Ser Ala Leu Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val 145 \$150\$ 155 160

Ala Leu Gly Gln Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg 165 \$170\$

Lys Tyr Ser Val Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val 180 185 190

Phe Val Met Tyr Ala Lys Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg 195 $200\,$ 205

Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly 210 220

Ser Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Arg Asn Val $225 \\ 230 \\ 235 \\ -240$

Ser Gly Lys Arg Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly . 245 250

<210> 1027

<211> 256

<212> PRT <213> Homo sapiens

Ser Val Lys Val Ser Cys Arg Val Ser Gly Gly Ser Phe Thr Asp Asp 20 25 30

Ser Ile Asn Trp Leu Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val \$35\$

Gly Gly Thr Ile Pro Leu Ala Asn Arg Ala Asn Tyr Ala Gln Lys Phe $50 \ \ \, 55$

Leu Glu Leu Thr Ser Leu Arg Ser Asp Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ser Ser Pro Pro Lys Trp Tyr Asp Ala Leu Thr Gly Asp Ser 100 105 110

Ser Tyr His Ser Ala Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr $115 \ \ \, 120 \ \ \, 125$

Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly 130 135

Gly Ser Ala Leu Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser 145 $$150\ \ \, 155\ \ \, 160$

Ala Ser Val Gly Asp Arg Val Arg Met Thr Cys Arg Thr Ser Gln Thr 165 $$ 170 $$ $$ 175

Ile Asn Lys Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro 180 185

Lys Leu Leu Ile Phe Ala Ala Ser Ser Leu Tyr Ser Gly Val Pro Ser $195 \hspace{1cm} 200 \hspace{1cm} 205$

Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Thr Tyr 225 230 235 240

<210> 1028

<211> 257 <212> PRT

<213> Homo sapiens

<400> 1028

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Ile Asp Asp 20 25 30

Ser Ile Asn Trp Leu Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val 35 40 45

Arg Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Ala Thr Val Phe 65 70 75 80

Leu Glu Leu Thr Ser Leu Arg Ser Asp Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ser Ser Pro Pro Lys Trp Tyr Asp Ala Leu Thr Gly His Ser 100 105 110

Ser Tyr His Ser Ala Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr $115 \,$ $120 \,$ $125 \,$

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Gly Gly Gly Gly Gly 130 135 140

Gly Ser Ala Leu Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val 145 150 155 160

Ala Leu Gly Gln Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg 165 \$170\$

Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val 180 185 190

Leu Val Ile Tyr Gly Lys Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg 195 200 205

Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly

Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser 225 230 235

Ser Gly Asn His Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu 245 250 255

Gly

<210> 1029

<211> 258

<212> PRT <213> Homo sapiens

 $<\!400>1029$ Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Arg Val Ser Gly Gly Ser Phe Thr Asp Asp $20 \\ 25 \\ 30$

Ser Ile Asn Trp Leu Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val 35 40 45

Gly Gly Thr Ile Pro Leu Ala Asn Arg Ala Asn Tyr Ala Gln Lys Phe 50 60

Arg Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Ala Thr Val Phe 65 70 75 80

Leu Glu Leu Thr Ser Leu Arg Ser Asp Asp Thr Ala Leu Tyr Tyr Cys

Ala Arg Ser Ser Pro Pro Lys Trp Tyr Asp Ala Leu Thr Gly Asp Ser 100 105 110

Ser Tyr Arg Ser Ala Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr 115 120 125

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Gly Gly Gly Gly 130 135 140

Gly Ser Ala Gln Ala Val Leu Thr Gln Pro Ser Ser Val Ser Ala Ala 145 \$150\$ 155 160

Pro Gly Gln Lys Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile 165 170 175

Lys Leu Leu Met Tyr Glu Asn Ser Glu Arg Pro Ser Gly Ile Pro Asp 195 200 205

Arg Fhe Ser Gly Ser Lys Ser Gly Thr Ser Ala Thr Leu Gly Ile Thr 210 215 220

Gly Val Gln Thr Gly Asp Glu Ala Asp Tyr Tyr Cys Ala Thr Trp Asp 225 230235235

Ser Ser Leu Arg Ala Gly Val Phe Gly Gly Gly Thr Lys Val Thr Val 245 250 255

Leu Gly

<210> 1030

<211> 249 <212> PRT

<213> Homo sapiens

<400> 1030

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Arg Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Ser Phe Ser Ser His 20 25 30

Val Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val 35 40 45

Gln His Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Phe 65 70 75 80

Met Asp Leu Ser Gly Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Gly Tyr Asp Ser Ser Ala Phe Arg Ala Phe Asp Ile Trp Gly $100 \hspace{1cm} 105 \hspace{1cm} 110 \hspace{1cm}$

Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly 115 120 125

Gly Gly Ser Gly Gly Gly Ser Ala Lèu Ser Tyr Glu Leu Thr Gln 130 . 135 140

Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Ala Val Ala Val Ser Cys $145 \\ 150 \\ 155 \\ 160$

Gln Leu Pro Gly Met Ala Pro Lys Leu Leu Ile Tyr Ser Asn Ser Gln $180 \,$ $185 \,$ 190

Arg Pro Leu Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr $195 \hspace{0.5cm} 200 \hspace{0.5cm} 205 \hspace{0.5cm}$

Ser Ala Ser Leu Ala Ile Ser Asp Leu Arg Ser Glu Asp Glu Ala Asp 210 215 220

Tyr Tyr Cys Gln Thr Trp Asp Asp Thr Leu Lys Ser Asn Ile Phe Gly 225 230 235 240

Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1031

<211> 248

<212> PRT

<213> Homo sapiens

<400> 1031

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Arg Lys Pro Gly Ser

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Ser Phe Ser Ser His

Val Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val 35 40 45

Gly Gly Ile Thr Pro Lys Phe Ala Thr Pro Asn Tyr Ala Gln Lys Phe $50 \ \ 55 \ \ 60$

Gln His Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Phe 65 70 75 80

Met Asp Leu Ser Gly Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Gly Tyr Asp Ser Ser Ala Phe Arg Ala Phe Asp Ile Trp Gly $100 \\ 105 \\ 110$

Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly 115 120 125

Gly Gly Ser Gly Gly Gly Ser Ala Gln Ala Val Leu Thr Gln Pro $130\,$

Ser Ser Val Ser Gly Ala Pro Gly Gln Arg Val Thr Ile Ser Cys Thr 145 150 155 160

Gly Ser Ser Ser Asn Ile Gly Ala Asn Tyr Asp Val Gln Trp Tyr Gln \$165\$

Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Gly Asn Asn Asn 180 $$185\$

Arg Pro Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Lys Ser Gly Thr 195 $200\,$ 205

Ser Ala Ser Leu Val Ile Thr Gly Leu Gln Ser Glu Asp Glu Ala Asp 210 215 220

Tyr Asn Cys Gln Ser Tyr Asp Thr Gly Leu Gly Glu Val Phe Gly Gly 225 230 235 240

Gly Thr Lys Val Thr Val Leu Gly

<210> 1032

<211> 259 <212> PRT

<213> Homo sapiens

<400> 1032

Gln 1	Met	Gln	Leu	Val 5	Gln	Ser	Gly	Ala	Glu 10	Val	Lys	Lys	Pro	Gly 15	Ser
Ser	Val	Lys	Val 20	Ser	Cys	Arg	Val	Ser 25	Gly	Gly	Ser	Phe	Ile 30	Asp	Asp
Ser	Ile	Asn 35	Trp	Leu	Arg	Gln	Ala 40	Pro	Gly	Gln	Gly	Leu 45	Glu	Trp	Val
Gly	Gly 50		Ile	Pro	Leu	Ala 55	Asn	Arg	Ala	Asn	Tyr 60	Ala	Gln	Lys	Phe
Arg 65	Asp	Arg	Val	Thr	Ile 70	Thr	Ala	Asp	Glu	Leu 75	Thr	Ala	Thr	۷al _.	Phe 80
Leu	Glu	Leu	Thr	Ser 85		Arg	Ser	Asp	Asp 90	Thr	Ala	Leu	Tyr	Tyr 95	Cys
Ala	Arg	Ser	Ser 100	Pro	Pro	Lys	Trp	Tyr 105	Asp	Ala	Leu	Thr	Gly 110	Asp	Ser
Ser	Tyr	His 115	Ser	Ala	Met	Asp	Val 120	Trp	Gly	Arg	Gly	Thr 125	Leu	Val	Thr
Val	Ser 130		Gly	Gly	Gly	Gly 135		Gly	Gly	Gly	Gly 140	Ser	Gly	Gly	Gly
Gly 145		. Ala	a Glr	Ser	Val		Thr	Gln	Pro	Pro 155	Ser	Val	Ser	Gly	Ala 160
Pro	Gly	/ Gli	ı Arç	Val 165		: Ile	Ser	Cys	Thr 170	Gly	Ser	Ser	Ser	175	Ile
G13	/ Gl	y Gly	7 Phe 180		Ala	His	Trp	Tyr 185	: Arg	Gln	. Val	Pro	Gly 190	Arg	Ala
Pro	o Ly	s Le		ı Ile	e Phe	Gly	Asr 200	Thr	Asp	Arg	Pro	Ser 205	Gly	/ Val	L Pro
Ası	o Ar 21		e Se:	r Gl	y Se:	r Lys 215	s Sei	: Gly	The	Sei	220	. Sei	: Le	ı Va	l Ile

Asp Ser Arg Leu Ser Gly Tyr Val Phe Gly Thr Gly Thr Lys Val Thr 245 250 255

Val Leu Glv

<210> 1033

<211> 257 <212> PRT

<213> Homo sapiens

<400> 1033

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Arg Lys Ser Gly Ser 1 10 15

Ser Val Lys Val Ser Cys Arg Thr Ser Gly Gly Ala Phe Ser Asn Tyr 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Gln Trp Met 35 40 45

Gly Gly Ile Ile Pro Val Phe Ser Thr Ala Asp Tyr Glu Glu Lys Phe 50 55 60

Glu Gly Arg Leu Lys Ile Thr Ala Asp Arg Leu Thr Ser Thr Val Phe 65 70 . 75 80

Met Glu Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Gly Gly Leu Arg His Val Thr Leu Phe Gly Thr Gly Thr Arg Gly $100 \\ 105 \\ 110$

His Phe Tyr Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser 130 135 140

Ala Gln Ala Val Leu Thr Gln Pro Ser Ser Val Ser Gly Ala Pro Gly 145 \$150\$

Gln Ser Val Thr Ile Ser Cys Thr Gly Ser Ser Ser Asn Ile Gly Ala

Gly Tyr Asp Val His Trp Tyr Arg Gln Leu Pro Arg Thr Ala Pro Lys 180 185 190

Leu Leu Ile Pro Gly Asn Asn Asn Gly Pro Ser Gly Val Ser Asp Arg 195 200 205

Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly

Leu Arg Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Arg 225 230 235 240

Ser Leu Lys Ser Tyr Val Phe Gly Ser Gly Thr Lys Val Thr Val Leu 245 250 255

Gly

<210> 1034

<211> 259

<212> PRT <213> Homo sapiens

<400> 1034

Giu Val Gln Leu Val Glu Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Ala Leu Ser Ser Asp 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40 45

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Phe $_{65}$ $$ 70 $$ 75 $$ 80

Met Glu Leu Ser Ser Leu Lys Ser Glu Asp Thr Ala Val Tyr Tyr Cys $85 \hspace{1cm} 90 \hspace{1cm} 95$

Ala Arg Gly Arg Glu Asp Thr Asp Lys Val Lys Pro Trp Asp Arg Tyr $100 \hspace{1cm} 105 \hspace{1cm} 110 \hspace{1cm}$

Tyr His Tyr Tyr Tyr Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr $115 \\ 120 \\ 125$

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly 130 ' 135 140

Gly Ser Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Gly Ala 145 150150155155

Pro Gly Gln Arg Val Thr Ile Ser Cys Thr Gly Gly Ser Ser Asn Ile 165 170 175

Gly Ala Gly His Ala Val His Trp Tyr Gln Lys Leu Pro Gly Thr Ala $180 \hspace{1.5cm} 185 \hspace{1.5cm} 190$

Pro Lys Val Leu Ile Tyr Gly Asn Ser Asn Arg Pro Ser Gly Val Pro $195 \hspace{0.25in} 200 \hspace{0.25in} 205$

Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile 210 215 220

Thr Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr 225 230235235

Asp Asn Ser Val Gly Gly Phe Val Phe Gly Thr Gly Thr Lys Leu Thr 245 250 255

Val Leu Gly

<210> 1035 -<211> 249

<212> PRT

<213> Homo sapiens

<400> 1035 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Arg Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Ser Phe Ser Ser His

Val Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val 35 40 45

Gly Gly Ile Thr Pro Lys Phe Ala Thr Pro Asn Tyr Ala Gln Lys Phe 50 60

Gln His Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Phe 65 70 75 80

Met Asp Leu Ser Gly Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys \$85\$ 90 95

Ala Arg Gly Tyr Asp Ser Ser Ala Phe Arg Ala Phe Asp Ile Trp Gly $100 \\ 100 \\ 105$

Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly 115 \$120\$

Ser Pro Gly Ser Leu Ser Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser 145 150 150 160

Cys Lys Ala Ser Gln Ser Val Ser Ser Asn Phe Leu Ala Trp Tyr Gln
165 170 175

Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr Gly Ala Ser Ser 180 185 190

Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr $195 \hspace{1.5cm} 200 \hspace{1.5cm} 205 \hspace{1.5cm} 205 \hspace{1.5cm}$

Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro Glu Asp Phe Ala Val 210 215

Tyr Tyr Cys Gln Gln Tyr Gly Thr Ser Pro Val Trp Val Thr Phe Gly 225 230 235 240

Gln Gly Thr Arg Leu Glu Ile Lys Arg 245

<210> 1036

<211> 260 <212> PRT

<213> Homo sapiens

<400> 1036

Gln Met Gln Leu Val Gln Ser Gly Ala Glu Val Lys Arg Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Arg Val Ser Gly Gly Ser Phe Thr Asp Asp 20 25 30

PCT/US02/36496

WO 03/055979 Ser Ile Asn Trp Leu Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val 135 40 . Gly Gly Thr Ile Pro Leu Ala Asn Arg Ala Asn Tyr Ala Gln Lys Phe 55 50 Arg Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Ala Thr Val Phe 70 Leu Glu Leu Thr Ser Leu Arg Ser Asp Asp Thr Ala Leu Tyr Tyr Cys 90 Ala Arg Ser Ser Pro Pro Lys Trp Tyr Asp Ala Leu Thr Gly Asp Ser 100 1.05 Ser Tyr His Ser Ala Met Asp Val Trp Gly Arg Gly Thr Met Val Thr . . 115 120 125 Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly 140 135 130 Gly Ser Ala Gln Ala Val Leu Thr Gln Pro Ser Ser Val Ser Gly Ala 145 150 155 Pro Gly Gln Arg Val Thr Ile Ser Cys Thr Gly Ser Ser Ser Asn Ile 165 170 175 Trp Ala Gly Tyr Asp Val His Trp Tyr Gln Gln Leu Pro Gly Ala Ala 190 180 185 Pro Lys Leu Leu Ile Arg Gly Asn Gly Asn Arg Pro Ser Gly Val Pro 200 205 Asp Arg Phe Ser Val Ser Lys Ser Gly Tyr Ser Ala Ser Leu Ala Ile 210 215 220

Thr Gly Leu Gln Pro Ala Asp Glu Gly Val Tyr Tyr Cys Gln Ser Tyr

235

Asp Ser Ser Leu Ser Gly Ser Lys Val Phe Gly Gln Gly Thr Lys Val 245 250

Thr Val Leu Gly 260

<210> 1037

<211> 248 <212> PRT

<213> Homo sapiens

<400> 1037

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Arg Lys Pro Gly Ser 1 5 10

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Ser Phe Ser His $20 \hspace{1cm} 25 \hspace{1cm} 30 \hspace{1cm}$

Val Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val 35 40 45

Gly Gly Tle Thr Pro Lys Phe Ala Thr Pro Asn Tyr Ala Gln Lys Phe $50 \\ 0 \\ 55$

Gln His Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Phe 65 70 75 80

Met Asp Leu Ser Gly Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys \$95\$

Ala Arg Gly Tyr Asp Ser Ser Ala Phe Arg Ala Phe Asp Ile Trp Gly $100 \\ 100$

Arg Gly Thr Thr Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly 115 . 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Mla Gln Ser Val Leu Thr Gln Pro 130 140

Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser 145 150 155 160

Gly Ser Arg Ser Asn Ile Gly Glu Asn Tyr Val Tyr Trp Tyr Gln Gln 165 $$170\ {\rm hr}$$

Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Lys Asn Asn Gln Arg \$180\$

Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Arg Ser Gly Thr Ser 195. 200 205

Ala Ser Leu Ala Ile Ser Gly Leu Arg Ser Glu Asp Glu Ala Val Tyr 210 220

Tyr Cys Ala Ser Trp Asp Asp Ser Leu Ser Gly Pro Val Phe Gly Arg 230 Gly Thr Lys Val Thr Val Leu Gly 245 <210> 1038 <211> 258 <212> PRT <213> Homo sapiens <400> 1038 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Ile Asp Asp 20 Ser Ile Asn Trp Leu Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val 35 40 Gly Gly Thr Ile Pro Leu Ala Asn Arg Ala Asn Tyr Ala Gln Lys Phe 55 50 60 Arg Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Ala Thr Val Phe 70 65 Leu Glu Leu Thr Ser Leu Arg Ser Asp Asp Thr Ala Leu Tyr Tyr Cys 90 95 85 Ala Arg Ser Ser Pro Pro Lys Trp Tyr Asp Ala Leu Thr Gly His Ser 110 100 105 Ser Tyr His Ser Ala Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr 120 125 Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly 140

Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Thr Ser Asn Ile $165 \hspace{1.5cm} 170 \hspace{1.5cm} 175$

145

Gly Ser Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr

Gly Ser Asn Thr Ile Thr Trp Tyr Gln Gln Leu Pro Gly Ala Ala Pro 185 190

Lys Leu Leu Ile Tyr Ser Thr Asn Gln Arg Pro Ala Gly Val Pro Asp $195 \hspace{0.5cm} 200 \hspace{0.5cm} 205 \hspace{0.5cm}$

Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser 210 \$210\$

Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Phe Cys Ala Thr Trp Asp 225 230 230 235

Asp Ser Leu Ser Gly Pro Val Phe Gly Gly Gly Thr Lys Val Thr Val 245 250 255

Leu Gly

<210> 1039

<211> 260

<212> PRT

<213> Homo sapiens

<400> 1039

Glu Val Gln Leu Val Gln Ser Gly Pro Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Arg Thr. Ser Gly Gly Thr Phe Arg Asn Tyr

Gly Leu Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met

35 40 45

Gly Gly Val Ile Pro Ile Ser Ser Thr Ile Lys Tyr Gly Gln Lys Phe
50 55 60

Gln Asp Arg Leu Thr Ile Val Ala Asp Asp Leu Thr Asn Thr Thr Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Ala Ala Thr Thr Ser Gln Lys His Asn Lys Tyr Ala Tyr Tyr 100 . 105 110

Phe Tyr Gly Met Asp Val Trp Gly Arg Gly Thr Thr Val Thr Val Ser 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser $130 \ \ 135 \ \ \ 140 \ \ \$

Ala Leu Asp Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr 145 150 155 160

Pro Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu 165 170 175

His Ser Asn Gly Asn Ile Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly 180 185 190

Gln Pro Pro Gln Leu Leu Ile Tyr Met Gly Ser Asn Arg Ala Ser Gly 195 200 205

Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu 210 215 220

Arg Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Ser Tyr Cys Met 225 230235235

Glu Ile Lys Arg 260

<210> 1040 <211> 248 <212> PRT

<213> Homo sapiens

 $<\!400>1040$ Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Arg Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Ser Phe Ser Ser His $20 \hspace{1cm} 25 \hspace{1cm} 30 \hspace{1cm}$

Val Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val 35 40 45

Gly Gly Ile Thr Pro Lys Phe Ala Thr Pro Asn Tyr Ala Gln Lys Phe 50 55 60

	Gln 65	His	Arg	Val	Thr	Ile 70	Thr	Ala	Asp	Glu	Leu 75	Thr	Arg	Thr	Val	Phe 80	
	Met	Asp	Leu	Ser	Gly 85	Leu	Arg	Ser	Glu	Asp 90	Thr	Ala	Val	Tyr	Tyr 95	Cys	
	Ala	Arg	Gly	Tyr 100	Asp	Ser	Ser	Ala	Phe 105	Arg	Ala	Phe	Asp	11e 110	Trp	Gly	
	Arg	Gly	Thr 115	Leu	Val	Thr	Val	Ser 120	Ser	Gly	Gly	Gly	Gly 125	Ser	Gly	Gly	
	Gly	Gly 130	Ser	Gly	Gly	Gly	Gly 135	Ser	Ala	Leu	Pro	Val 140	Leu	Thr	Gln	Pro	
	Pro 145		Ala	Ser	Gly	Thr 150	Pro	Gly	Gln	Arg	Val 155	Ser	Ile	Ser	Cys	Ser 160	
	Gly	Ser	Gly	Ser	Asn 165	Ile	Gly	Ser	Lys	Pro 170	Val	Asn	Trp	Tyr	Gln 175	Gln	
	Leu	Pro	Gly	Thr 180		Pro	Lys	Leu	Ile 185	Ile	Tyr	Ser	Ser	Asn 190	Lys	Arg	
	Pro	Ser	Glu 195		Ala	Asp	Arg	Phe 200		Gly	Ser	Lys	Ser 205	Gly	Thr	Ser	
	Ala	Ser 210	Leu	Ala	Ile	Ser	Gly 215		Gln	Ser	Glu	Asp 220	Glu	Ala	Glu	Tyr	
	Ty:		Ala	. Ser	Trp	Asp 230	Asp	Arg	Leu	. Asn	Gly 235	Trp	Met	Phe	Gly	Gly 240	
	Gly	Thr	Lys	Val	Thr 245		Leu	Gly								j	
	<2: <2:	10> 1 11> 2 12> 1 13> 1	259	sapi	ens.												
	Gli	00> 1 n Val	L041 L Glr	ı Let	ı Val		Ser	· Gly	/ Ala	Glu 10		. Lys	Lys	Pro	Gly 15	Ser	

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Ile Asp Asp 25 30 1217

Ser Ile Asn Trp Leu Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val \$35\$

Gly Gly Thr Ile Pro Leu Ala Asn Arg Ala Asn Tyr Ala Gln Lys Phe 50 60

Arg Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Ala Thr Val Phe 65 70 75 80

Leu Glu Leu Thr Ser Leu Arg Ser Asp Asp Thr Ala Leu Tyr Tyr Cys $85 \hspace{1cm} 90 \hspace{1cm} 95$

Ala Arg Ser Ser Pro Pro Lys Trp Tyr Asp Ala Leu Thr Gly His Ser 100 105 110

Ser Tyr His Ser Ala Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr 115 120 125

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Gly Gly Gly Gly 130 135 140

Gly Ser Ala Gln Ala Val Leu Thr Gln Pro Ser Ser Val Ser Gly Ala 145 150 155 160

Pro Gly Gln Arg Val Thr Ile Ser Cys Thr Gly Ser Glu Ser Asn Ile 165 170 175

Gly Ala Gly Tyr Asp Val His Trp Tyr Leu Gln Leu Pro Gly Ala Ala 180 185

Pro Lys Leu Leu Ile Tyr Gly Asn Lys Tyr Arg Ser Ser Gly Val Pro $195 \hspace{0.5cm} 200 \hspace{0.5cm} 205$

Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile 210 215 220

Thr Gly Leu Arg Val Glu Asp Glu Ala Glu Tyr Val Cys Gln Ser Tyr 225 230235235

Asp Lys Ser Leu Ser Gly Tyr Val Phe Gly Pro Gly Thr Lys Val Thr $245 \ 250 \ 250$

Val Leu Gly

<210> 1042 <211> 258 <212> PRT <213> Homo sapiens <400> 1042 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Ser Lys Pro Gly Ser 5 10 Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Leu Ile Asp Tyr 25 2.0 Ser Ile Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val 35 40 Gly Gly Thr Val Pro Leu Ala Asn Thr Ala Asn Tyr Ala Gln Lys Phe 55 50 Arg Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Ala Thr Val Phe 75 70 65 Leu Glu Leu Thr Ser Leu Arg Ser Asp Asp Thr Ala Leu Tyr Tyr Cys 85 90 95 Ala Lys Ser Ser Pro Pro Lys Trp Tyr Asp Ala Leu Thr Gly His Ser 100 105 110 Ser Tyr His Ser Ala Met Asp Val Trp Gly Lys Gly Thr Leu Val Thr 115 120 125 Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly 130 . 135 140 Gly Ser Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr 145 150 155 160 Pro Gly Gln Arg Val Thr Ile Arg Cys Ser Gly Ser Ser Ser Asn Ile 165 170 175 Gly Ser Asn Phe Val Phe Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro

Lys Val Leu Ile Thr Arg Asn Asn Lys Arg Pro Ser Gly Val Pro Asp 195 200 205

Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser 210 ' 215

Gly Leu Arg Ser Glu Asp Glu Ala Asp Tyr His Cys Val Ala Trp Asp 235 230

Asp Arg Leu Arg Gly Trp Val Phe Gly Gly Gly Thr Lys Val Thr Val 245

Leu Gly

<210> 1043

<211> 259

<212> PRT

<213> Homo sapiens

<400> 1043

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Ala Leu Ser Ser Asp 25 20

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35

Gly Gly Ile Ile Pro Thr Phe Arg Lys Thr Lys Tyr Ala Gln Lys Phe 50 55

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Phe 70

Met Glu Leu Ser Ser Leu Lys Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 9.0

Ala Arg Gly Arg Glu Asp Thr Asp Lys Val Lys Pro Trp Asp Arg Tyr 100 1.05

Tyr His Tyr Tyr Tyr Met Asp Val Trp Gly Arg Gly Thr Thr Val Thr

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly 135 140

Gly Ser Ala Gln Ala Val Leu Thr Gln Pro Ser Ser Val Ser Glu Ala 160 155 150

Gly Ala Gly Tyr Asp Val His Trp Tyr Lys Gln Leu Pro Gly Thr Ala $180 \hspace{1.5cm} 185 \hspace{1.5cm} 190 \hspace{1.5cm}$

Pro Lys Leu Leu Ile Phe Asp Thr Asn Asn Arg Pro Ser Gly Val Pro
195 200 205

Ala Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ala Leu Ala Ile 210 \$210\$

Val Leu Gly

<210> 1044

<211> 253 <212> PRT

<213> Homo sapiens

<400> 1044

Glin Val Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Gly Thr Leu 1 10 15

Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr Ser Met $20 \hspace{1cm} 25 \hspace{1cm} 30$

Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser 35 40 45

Ile Ser Ser Ser Ser Ser Tyr Ile Tyr Tyr Ala Asp Ser Val Lys Gly
50 55 60

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln 65 70 75 80

Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg $85 \hspace{0.5cm} 90 \hspace{0.5cm} 95$

Glu Gly Gly Asn Tyr Asp Ile Leu Thr Gly Tyr Tyr Ile Gly Asn Gly
100 105 110

Ala Phe Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly \$115\$ \$120\$ \$125\$

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser $_{130}$ $_{140}$

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile 145 150 155 160

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr 165 170 170

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile $180~\cdot~185~\cdot~185$

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly 195 200 205

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala 210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Tyr Ser Ser Tyr Thr Asn Arg Ser Thr 225 230235235

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly $245 \hspace{1cm} 250 \hspace{1cm}$

<210> 1045

<211> 254

<212> PRT

<213> Homo sapiens

<400> 1045

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser

Ser Val Lys Val Ser Cys Gln Ala Ser Gly Gly Asn Phe Asn Ser Tyr $20\ .$ $25\ \ 30$

Gly Val Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40 45

Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Ser Thr Val Tyr 65 70 Leu Glu Val Arg Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 Ala Arg Gly Asp Tyr Asp Ile Leu Thr Gly Tyr Pro Ala Glu Cys Phe 100 105 Gln Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val 130 135 140 Leu Thr Gln Pro Pro Ser Val Ser Gly Ala Pro Gly Gln Arg Val Thr 150 155 145 Ile Ser Cys Thr Gly Ser Ser Ser Asn Ile Gly Ala Gly Tyr Asp Val 165 170 His Trp Tyr Arg His Ile Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr 180 185 190 Gly Asn Ser His Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly 195 200 205 Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln Ala 210 215 220 Glu Asp Glu Ala Asp Tyr Phe Cys Gln Ser Tyr Asp Ser Ser Leu Ser 225 230 235 240 Ala Val Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly 245 250 <210> 1046 <211> 251 <212> PRT <213> Homo sapiens <400> 1046 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala

1223

1 5

Ser Val Lys Val Ser Cys Lys Ala Ser Lys Tyr Thr Phe Ala Asn His 25 Tyr Ile His Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Met Gly Asn Ile Asn Pro Ser Gly Ser Ser Thr Arg Tyr Ala Gln Arg Phe 55 50 Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr 65 70 75 Met Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85 90 Ala Arg Ala Thr. Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 105 110 Asp Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 125 Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 140 Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 155 160 Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 175 Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190 Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205 Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Lys Arg Ser Thr Arg Val 235 230

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1047 <211> 251 <212> PRT

<213> Homo sapiens

<400> 1047 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Lys Tyr Thr Phe Ala Asn His 20 25 30

Tyr Ile His Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Met 35 40 45

Gly Asn Ile Asn Pro Ser Gly Ser Ser Thr Arg Tyr Ala Gln Arg Phe 50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr $65 \hspace{1.5cm} 70 \hspace{1.5cm} 75 \hspace{1.5cm} 80$

Met Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 105 110

Asp Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser $165 \\ 170 \\ 175$

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu $180 \ \ \,$ 185 $\ \ \,$ 190 $\ \ \,$

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Asn Arg Ser Thr Arg Val 225 230 235

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
245 250

<210> 1048

<211> 252 <212> PRT

<213> Homo sapiens

<400> 1048

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 $$ 5 $$ 10 $$ 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala $20 \hspace{1cm} 25 \hspace{1cm} 30 \hspace{1cm}$

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 50 55 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met $65 \hspace{1.5cm} 70 \hspace{1.5cm} 75 \hspace{1.5cm} 80$

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala $85 \hspace{1.5cm} 90 \hspace{1.5cm} 95$

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp $100 \hspace{1.5cm} 100 \hspace{1.5cm} 105 \hspace{1.5cm} 110 \hspace{1.5cm}$

Met Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Ser Tyr Glu 130 135 . 140

Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr 145 150 155 160

Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Asn $165 \\ 170 \\ 175$

Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Asn 180 185 190

Asn Asp Gln Arg Pro Ser Gly Val Pro Ala Arg Phe Ser Gly Ser Lys 195 200 205

Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp 210 215

Glu Ala Val Tyr Tyr Cys Ala Ser Trp Asp Asp Ser Leu Asn Gly Pro 225 230 235 . 240

Val Phe Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1049

<211> 251

<212> PRT <213> Homo sapiens

<400> 1049

Gln Leu Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu 1 5 10

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Phe Ile Ser Ser Arg $20 \hspace{1cm} 25 \hspace{1cm} 30 \hspace{1cm}$

Thr Ser Tyr Trp Gly Trp Ile Arg Gln Pro Pro Gly Lys Gly Pro Glu 35 40 45

Trp Ile Gly Asn Ile Tyr Tyr Thr Gly Lys Thr Tyr Tyr Ser Pro Ser 50 55 60

Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Leu 65 70 75 80

Cys Ala Arg Ala Gly Tyr Asp Leu Leu Thr Gly Tyr Pro Phe Tyr Phe $100 \ \ 105 \ \ \ 110$

asp Ser Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Glu Ile 130 $$135\$

Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly Glu Arg 145 150 155 160

Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Tyr Leu Ala 165 170 175

Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr Asp 180 185 190

Ala Ser Asn Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser Gly Ser Gly 195 200 205

Phe Ala Val Tyr Tyr Cys Gln Gln Arg Ser Asn Trp Pro Phe Leu Thr 225 230 230 235

Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg 245 250

<210> 1050

<211> 251 <212> PRT

<213> Homo sapiens

Ser Leu Arg Leu Ser Cys Ala Ala Ser Glu Phe Thr Phe Ser Ser Tyr 20 25 30

Ala Met His Trp Val Arg Cln Ala Pro Gly Lys Gly Leu Glu Trp Val \$45\$

Ala Val Val Ser Asp Asp Gly Arg Asn Lys Tyr Tyr Ala Glu Ser Val $50 \ \ \,$

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Ser Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys $85 \hspace{1cm} 90 \hspace{1cm} 95 \hspace{1cm} .$

Ala Thr Glu Val Arg Asn Tyr Asp Leu Leu Thr Arg Ser Tyr Leu Ala 100 105 110

Gly Pro Leu Asp Asn Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ser $130 \\ 135 \\ 140$

Glu Leu Thr Gln Asp His Ala Val Ser Val Ala Leu Gly Gln Thr Val $145 \\ 150 \\ 150 \\ 155$

Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp \$165\$ \$170\$ \$170\$

Asn Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser 195 $200\,$ 205

Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu 210 215 220

Ala Asp Tyr Tyr Cys His Ser Arg Asp Ser Ser Gly Asn His Val Leu 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1051

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1051

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr $20 \ 25 \ 30$

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 50 55 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 70 Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 105 Asp Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 150 155 , 160 145 Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 175 Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 185 190 180 Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205 Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220 Glu Asn Asp Tyr Asn Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235 240 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250 <210> 1052 <211> 251 <212> PRT <213> Homo sapiens <400> 1052 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 10 15 1 5

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 20 25 Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 50 Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 75 70 65 Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 105 Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125 Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 140 Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 155 160 Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 . 170 175 Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190 Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Asp 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1053

<211> 251 <212> PRT

<213> Homo sapiens

<400> 1053

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Lys Tyr Thr Phe Ala Asn His $20 \hspace{1cm} 25 \hspace{1cm} 30 \hspace{1cm}$

Tyr Ile His Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Met $35 \ \ 40 \ \ 45$

Gly Asn Ile Asn Pro Ser Gly Ser Ser Thr Arg Tyr Ala Gln Arg Phe 50 . 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr 65 70 75 80

Met Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr A1a Val Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 105 110

Asp Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 \$120\$

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 \$150\$

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu $180 \,\,$ $185 \,\,$ $190 \,\,$

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys $195 \hspace{0.5cm} 200 \hspace{0.5cm} 205 \hspace{0.5cm}$

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 \$215\$

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Asp 225 \$230\$

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1054

<211> 255 <212> PRT

<213> Homo sapiens

<400> 1054

Gly Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly His Thr Phe Thr Ser Asp $20 \ 25 \ 30$

His Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met \$35\$

Gly Trp Ile Ser Pro His His Gly Lys Thr Asn Tyr Ala Gln Lys Leu 50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr $65 70 75 $

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Val Gln Met Asp Ser Glu Tyr Tyr Asp Leu Leu Thr Gly Ile $100 \,$ $105 \,$ \cdot $110 \,$

Asn Val Gly Pro Tyr Tyr Phe Asp Tyr Trp Gly Lys Gly Thr Pro Val 115 120 125

Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly 130 $$135\$

Gly Gly Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu 145 \$150\$

Gly Gln Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr \$165\$ \$170\$ \$170\$

Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val 180 185 190

Ile Tyr Gly Lys Asn Asn Asp Pro Ser Gly Ile Pro Asp Arg Phe Ser 195 200 205

Gly Ser Ser Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln 210 215

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly 225 230 235 240

Asn His Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250 255

<210> 1055

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1055

His Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 $$ 15 $$ 10 $$ 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr $20 \\ 25 \\ 30$

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 105 110

Asp Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser $165 \\ 0.00 \\ 170 \\ 0.00 \\ 175$

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys $195 \hspace{1cm} 200 \hspace{1cm} 205 \hspace{1cm}$

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1056

<211> 255

<212> PRT

<213> Homo sapiens

<400> 1056

Gln Met Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Asp $20 \hspace{1cm} 25 \hspace{1cm} 30 \hspace{1cm}$

His Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met $35 \hspace{1cm} 40 \hspace{1cm} 45$

Gly Trp Ile Ser Pro His His Gly Lys Thr Asn Tyr Ala Gln Lys Leu 50 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr 65 70 75

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys $85\,$

Ala Arg Val Gln Met Asp Ser Glu Tyr Tyr Asp Leu Leu Thr Gly Tle 100 105 110

Asn Val Gly Pro Tyr Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val 115 . 120 125

Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly 130 135

Gly Gly Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu 145 150 155 160

Gly Gln Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr $165 \\ 170 \\ 175$

Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val 180 \$180\$

Gly Ser Ser Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln 210° 215 220

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly 225 230 235 240

Asn His Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250 250

<210> 1057

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1057

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 50 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 75 Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 90 Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 105 Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125 Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 140 Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 150 155 160 145 Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 Tro Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190 Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205 Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 230 235 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250 <210> 1058 <211> 251 <212> PRT <213> Homo sapiens <400> 1058 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Lys Tyr Thr Phe Ala Asn His 2.5 Tyr Ile His Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Met 35 40 Gly Asn Ile Asn Pro Ser Gly Ser Ser Thr Arg Tyr Ala Gln Arg Phe 55 50 Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr 65 70 Met Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85 9.0 Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 105 110 100 Asp Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 140 Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 150 155 160 Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 175 Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 200 Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 215 Glu Asp Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1059

<211> 251 <212> PRT

<213> Homo sapiens

<400> 1059

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 $$ 10 $$ 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Lys Tyr $20 \hspace{1cm} 25 \hspace{1cm} 30 \hspace{1cm}$

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met $35 \ \ 40 \ \ 45$

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Arg Tyr Ser Arg Lys Phe 50

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys $85 \hspace{1cm} 90 \hspace{1cm} 95$

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 105 110

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser $165 \\ 170 \\ 175$

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu $180 \hspace{1cm} 185 \hspace{1cm} 190 \hspace{1cm}$

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly

<210> 1060

<211> 251 <212> PRT

<213> Homo sapiens

<400> 1060

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Lys Tyr Thr Phe Ala Asn His 20 25 30

Tyr Ile His Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Met 35 40 45

Gly Asn Ile Asn Pro Ser Gly Ser Ser Thr Arg Tyr Ala Gln Arg Phe 50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr 65 70 75 80

Met Glu Leu Ser Asn Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys $85 \hspace{1cm} 90 \hspace{1cm} 95$

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 105 \cdot . 110

Asp Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 150 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser $165 \ \cdot \ 170 \ \cdot \ 170$

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys $195 \hspace{1.5cm} 200 \hspace{1.5cm} 205 \hspace{1.5cm}$

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1061

<211> 251

<212> PRT <213> Homo sapiens

<400> 1061

Lys Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Lys Tyr Thr Phe Ala Asn His $20 \\ 25 \\ 30$

Tyr Ile His Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Met 35 40 45

Gly Asn Tle Asn Pro Ser Gly Ser Ser Thr Arg Tyr Ala Gln Arg Phe 50 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr 65 70 75 80

Met Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe
100 105 110

Asp Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu $180 \,$ $185 \,$ $190 \,$

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys \$195\$

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1062

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1062

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 50 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Asp Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Gly Gly Gly Ser Gln Pro Val Leu 130 \$135\$

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser $165 \\ 170 \\ 175$

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1063

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1063

Cln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Lys Tyr Thr Phe Ala Asn His $20 \hspace{1cm} 25 \hspace{1cm} 30 \hspace{1cm}$

Tyr Ile His Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Met 35 40 45

Gly Asn Ile Asn Pro Ser Gly Ser Ser Thr Arg Tyr Ala Gln Arg Phe 50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr 65 70 75 80

Met-Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys $85 \hspace{1cm} 90 \hspace{1cm} 95$

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 105 110

Asp Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu $130 \hspace{1.5cm} 135 \hspace{1.5cm} 140 \hspace{1.5cm}$

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser $165 \\ 170 \\ 175$

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Glu 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1064 <211> 251

<212> PRT <213> Homo sapiens

<400> 1064 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 15 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 20 .25 Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 4.0 Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 7.0 Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 105 110 Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 120 125 115 Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 140 Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 155 160 150 Tyr Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 175 165 170 Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 185 190 Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205 Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 215 Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Asp

Phe Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

225

<210> 1065

<211> 255 <212> PRT

<213> Homo sapiens

<400> 1065

Arg Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 5 10

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Asp 25 20

His Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35

Gly Trp Ile Ser Pro His His Gly Lys Thr Asn Tyr Ala Gln Lys Leu 50 55

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr 7.0

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 90 95 85

Ala Arg Val Gln Met Asp Ser Glu Tyr Tyr Asp Leu Leu Thr Gly Ile 105

Asn Val Gly Pro Tyr Tyr Phe Asp Tyr Trp Gly Arg Gly Thr Leu Val 115 120 125

Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly 135 140

Gly Gly Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu 150 155

Gly Gln Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr 170 175

Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val 185

Ile Tyr Gly Lys Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser

Gly Ser Ser Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln 215 210

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly 225 230 235 Asn His Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 250 255 245 <210> 1066 <211> 251 <212> PRT <213> Homo sapiens <400> 1066 His Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 Ser Val Lys Val Ser Cys Lys Ala Ser Lys Tyr Thr Phe Ala Asn His 25 20 Tyr Ile His Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Met 40 35 Gly Asn Ile Asn Pro Ser Gly Ser Ser Thr Arg Tyr Ala Gln Arg Phe 60 50 55 Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr 70 75 80 65 Met Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 95 90 Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 105 110 Asp Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly 115 120 125 Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1067

<211> 251

<212> PRT

<213> Homo sapiens

<220>

<221> Site

<222> (195) <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1067

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala

Ser Val Lys Val Ser Cys Lys Ala Ser Lys Tyr Thr Phe Ala Asn His 20 . 25 . 30

Tyr Ile His Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Met 35 40 45

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr 65 70 75 80

Met Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys $85 \hspace{0.5cm} 90 \hspace{0.5cm} 95$

Ala Arg Ala Thr Tyr Asp Fro Leu Thr Gly Tyr Ser Phe Asp Gly Phe $100 \hspace{1.5cm} 100 \hspace{1.5cm} 105 \hspace{1.5cm} 110 \hspace{1.5cm}$

Asp Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 1248

115 120 125

Gly Ser Gly Gly Gly Gly Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu $180 \hspace{1cm} 185 \hspace{1cm} 185 \hspace{1cm} 190 \hspace{1cm}$

Gly Ser Xaa Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val $225 \hspace{1.5cm} 230 \hspace{1.5cm} 235 \hspace{1.5cm} 240 \hspace{1.5cm}$

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1068

<211> 251

<212> PRT <213> Homo sapiens

<220> <221> Site

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1068

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Xaa Tyr 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 50 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 . 105 . 110

Asp Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 \$120\$

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 \$150\$

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1069 <211> 253 <212> PRT

<213> Homo sapiens

 $<\!400>1069$ Gly Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala Ser 1 5 10 15

Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr Thr 2.0 25 Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met Gly 35 Trp Val Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe Gln 55 50 Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr Met 70 65 Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys Ala 85 9.0 Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Leu Asp 110 100 105

Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr 130 135 140

Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser 145 150 155 160

Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly 180 185 190

Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser 195 200

Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Glu Ala 210 \$215\$

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr 225 230 235 $$. 240

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly $245 \ \ 250$

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wo	03/05	5979												1	PCT
<210 <211 <212 <213	> 25 > PR	i T	apie	ns											
<220 <221 <222 <223	> Si > (1	1	[uals	any	of	the	natu	ırall	у ос	curr	ing	L-an	ino	ació	ls
<400 Xaa 1			Leu	Gln 5	Gln	Ser	Gly	Ala	Glu 10	Val	Lys	Lys	Pro	Gly 15	Ala
Ser	Val	Thr	Val 20	Ser	Cys	Arg	Ala	Ser 25	G1y	Tyr	Asn	Phe	Ile 30	Thr	Ty:
Gly	Ile	His 35	Trp	Val	Arg	Gln	Ala 40	Pro	G1y	Gln	Gly	Pro 45	Glu	Trp	Ме
Gly	Trp 50	Ile	Asn	Pro	Gly	Thr 55	Gly	Asn	Thr	Gly	Ser 60	Ser	Gln	Lys	Ph
Asn 65	His	Arg	Val	Thr	Ile 70	Thr	Arg	Asp	Thr	Ser 75	Ala	Thr	Thr	Ala	Ty 8
Met	Glu	Met	Arg	Ser 85	Leu	Arg	Ser	Glu	Asp 90	Thr	Ala	Leu	Tyr	Tyr 95	Су
Ala	Arg	Ala	Thr 100	Tyr	Asp	Pro	Leu	Thr 105	Gly	Tyr	Ser	Phe	Asp 110	Gly	Ph
Asp	Ile	Trp 115		Gln	Gly	Thr	Leu 120	Val	Thr	Val	Ser	Ser 125	Gly	Gly	Gl
Gly	Ser 130	Gly	Gly	Gly	G1y	Ser 135	Gly	Gly	Gly	Gly	Ser 140	Gln	Ser	Val	Le
Thr 145		Pro	Ala	Ser	Val 150		Gly	Ser	Pro	Gly 155	Gln	Ser	Ile	Thr	11 16
Ser	Cys	Thr	Gly	Thr 165		Ser	Asp	Val	Gly 170		Tyr	Asn	Tyr	Val 175	Se
							_		_				-1-	m	

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 1252

195 200 205

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230235235

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly $245 \ \ 250$

<210> 1071 <211> 251

<212> PRT

<213> Homo sapiens

<4005 1071 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr 20 25 30

Ala Met His Trp Val Arg Gln Ala Pro Gly Gln Arg Leu Glu Trp Met $35 \hspace{1cm} 40 \hspace{1cm} 45$

Gly Trp Ile Asn Ala Gly Asn Gly Asn Thr Lys Tyr Ser Gln Lys Phe 50 55

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gİy Phe $100 \,$ $105 \,$ $110 \,$

Asp Ile Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 170 Trp Tyr Gln Gln His Pro Ser Lys Ala Pro Lys Leu Met Ile Tyr Glu 185 Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 200 Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 215 210 Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 230 225 Phe Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250 <210> 1072 <211> 251 <212> PRT <213> Homo sapiens <400> 1072 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Leu Lys Lys Pro Gly Ser 10 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 20 25 Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 7.0 Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 90 Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 105 110 100

Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 1254

115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu 130 \$135\$

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 175

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys $195 \hspace{1.5cm} 200 \hspace{1.5cm} 205 \hspace{1.5cm}$

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> '1073

<211> 251

<212> PRT <213> Homo sapiens

<100× 1073

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 354045

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe $50 \hspace{1cm} 55 \hspace{1cm} 60 \hspace{1cm}$

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Thr Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 90 85 Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 105 110 Asp Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu 135 Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 155 150 Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 170 165 Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 185 Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 205 200 Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 215 220 210 Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 230 235 225 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 <210> 1074 <211> 251 <212> PRT <213> Homo sapiens <400> 1074 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala Ser Val Asn Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr . 20 Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 1256

35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr $65 \hspace{1.5cm} 70 \hspace{1.5cm} 75 \hspace{1.5cm} 80$

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe $100 \,$ $\,$ $\,$ $105 \,$ $\,$ $\,$ $\,$ $\,$ $110 \,$

Asp Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 \$120\$

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 155 150

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser $165 \\ 165 \\ 170 \\ 175$

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu $180 \,$ $\,$ 185 $\,$ $\,$ 190 $\,$

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys \$195\$

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1075

<211> 254

<212> PRT

<213> Homo sapiens

<400> 1075 Gly Val Gln Leu Val Gln Ser Gly Gly Gly Val Val Gln Pro Gly Met Ser Leu Ile Val Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr 25 Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Val Leu Ser Tyr Asp Gly Asp Asn Lys Tyr Tyr Ala Asp Ser Val 55 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 70 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 90 85 Ala Arg Glu Gly Ser Tyr Asp Ile Leu Thr Gly Tyr Tyr Val Gly Val 105 Gly Arg Met Asp Val Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser 125 120 Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln 135 140 Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser 150 155 1.45 Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn 165 Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser 195 200

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln 210 215

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Asn Thr Thr Lys Ser 230 225

Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1076 <211> 251

<212> PRT <213> Homo sapiens

<400> 1076

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 50 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 105 110

Asp Ile Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 175

Trp Tyr Gln Gln His Pro Gly Arg Ala Pro Lys Leu Met Ile Tyr Glu $180 \hspace{1cm} 185 \hspace{1cm} 190 \hspace{1cm}$

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 1259

200 205 195

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 215

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 235 230

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1077 <211> 251

<212> PRT

<213> Homo sapiens

<400> 1077 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr

Ala Ile His Trp Val Arg Gln Ala Pro Gly Gln Arg Leu Glu Trp Met

Gly Trp Ile Asn Ala Asn Asn Gly Asn Thr Lys His Ser Gln Lys Phe 50

Gln Gly Arg Val Thr Ile Thr Arg Asp Thr Ser Ala Ser Thr Ala Tyr

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Ile Tyr Tyr Cys 85

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100

Asp Ile Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly 115 120

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 135 130

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser $165 \,$ $170 \,$ $175 \,$

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 $\,$ 185 $\,$ 190 $^{\circ}$

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys \$195\$

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1078 <211> 251

<211> 251 <212> PRT

<213> Homo sapiens

<213> Homo Sapien

<400> 1078 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 10 15 10 15

Ser Val Met Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 35 40

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 50

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe . 100 .105 . 110

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 1261

115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu $180 \hspace{1cm} 185 \hspace{1cm} 190 \hspace{1cm}$

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys $195 \hspace{1cm} 200 \hspace{1cm} 205 \hspace{1cm}$

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Ile Leu Gly '

<210> 1079

<211> 251

<212> PRT <213> Homo sapiens

<220>

<221> Site

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> Site <222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> Site

<222> (62) <223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> Site

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> Site <222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1079

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Ile Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Xaa Tyr 2025

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met \$35\$ \$40\$

Gln Gly Arg Xaa Thr Ile Thr Lys Asp Thr Ser Xaa Ser Ala Thr Tyr $_{65}$ $$ 70 $$ 75 $$ 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys $85 \hspace{1cm} 90 \hspace{1cm} 95$

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe $100 \,$ $\,$ $105 \,$ $\,$ $\,$ $110 \,$

Asp Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 $$120\$

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu $_$ 180 $$185\ \ \,$ 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 . . 200 . . 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly

<210> 1080

<211> 251

<212> PRT <213> Homo sapiens

<400> 1080

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Met Val Ser Cys Lys Ala Ser Lys Tyr Thr Phe Ala Asn His 20 25 30

Tyr Ile His Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Met 35 40 45

Gly Asn Ile Asn Pro Ser Gly Ser Ser Thr Arg Tyr Ala Gln Arg Phe 50 60

Met Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe $100 \\ 105 \\ 110$

Asp Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 \$120\$

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu 130 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser $165 \ \ 170 \ \ 175$

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 185 180

- Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 205 200 195
- Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 21.5 210
- Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245

- <210> 1081
- <211> 251
- <212> PRT
- <213> Homo sapiens
- <400> 1081
- Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5_
- Ser Val Met Val Ser Cys Lys Ala Ser Lys Tyr Thr Phe Ala Asn His 25 2.0
- Tyr Ile His Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Met
- Gly Asn Ile Asn Pro Ser Gly Ser Ser Thr Arg Tyr Ala Gln Arg Phe 55 60
- Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr 75 70
- Met Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 95 85 90
- Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 1.05
- Asp Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 1.20 115
- Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 135 130

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 150 Ser Cvs Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 170 Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205 Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 230 235 240 225 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250 <210> 1082 <211> 251 <212> PRT <213> Homo sapiens <400> 1082 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1.5 1 5 Ser Val Ile Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 25 Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 3.5 Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys

85 90

70

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe

Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys \$195\$

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 230 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1083

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1083 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Lys Tyr Thr Phe Ala Asn His $20 \hspace{1cm} 25 \hspace{1cm} 30 \hspace{1cm}$

Tyr Ile His Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Met 35 40 45

Gln 65	Gly	Arg	Val	Thr	Met 70	Thr	Arg	Asp	Thr	Ser 75	Thr	Ser	Thr	Val	Tyr 80
Met	Glu	Leu	Ser	Asn 85	Leu	Arg	Ser	Asp	Asp 90	Thr	Ala	Val	Tyr	Tyr 95	Cys
Ala	Arg	Ala	Thr 100	Tyr	Asp	Pro	Leu	Thr 105	Gly	Tyr	Ser	Phe	Asp 110	Gly	Phe
Asp	Ile	Trp 115	Gly	Lys	Gly	Thr	Leu 120	Val	Thr	Val	Ser	Ser 125	Gly	Gly	Gly
Gly	Ser 130		Gly	Gly	Gly	Ser 135	Gly	Gly	Gly	Gly	Ser 140	Gln	Ser	Val	Leu
Thr 145		Pro	Ala	Ser	Val 150	Ser	Gly	Ser	Pro	Gly 155	Gln	Ser	Ile	Thr	Ile 160
Ser	Cys	Thr	Gly	Thr 165	Ser	Ser	Asp	Val	Gly 170	Gly	Tyr	Asn	Tyr	Val 175	Ser
Trp	Tyr	Gln	Gln 180		Pro	Gly	Lys	Ala 185	Pro	Lys	Leu	Met	Ile 190	Tyr	Glu
Gly	Ser	Lys		Pro	Ser	Gly	Val 200	Ser	Asn	Arg	Phe	Ser 205	Gly	Ser	Lys
Ser	Gly 210		Thr	Ala	Ser	Leu 215	Thr	Ile	Ser	Gly	Leu 220	Gln	Ala	Glu	Asp
		. Asp	Tyr	Tyr	Cys 230	Ser	Ser	Asn	Thr	Thr 235	Arg	Ser	Thr	Arg	Val 240
Phe	Gly	r Gly	gly	Thr 245	Lys	Leu	Thr	Val	Leu 250	Gly					
<210> 1084 <211> 251															
	L2> I L3> I		sapi	ens											
Gli	00> : n Va: 1	LO84 L Gli	ı Let		ı Glr	Ser	· Gly	Ala	Glu 10	ı Val	. Lys	Lys	e Pro	Gl ₃	7 Ala
	1268														

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn His 20 Ser Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 35 Gly Trp Ile Asn Arg Gly Gly Ser Asp Thr Gln Tyr Ser Gln Lys Phe 55 50 Gln Gly Arg Val Thr Ile Thr Arg Asp Thr Ser Ala Ser Ala Ala Tyr 70 Met Glu Leu Ser Ser Leu Gly Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85 Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 105 110 100 Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly 120 115 Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 135 1.40 Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 160 155 Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 170 175 Trp Tvr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 190 Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 200 Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 235

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1085

<211> 251 <212> PRT

<213> Homo sapiens

<400> 1085

Gly Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Met Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met $35 \hspace{1cm} 40 \hspace{1cm} 45 \hspace{1cm}$

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe $50 \ \ 55 \ \ 60$

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 105 110

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 \$170\$

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235 235

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly

<210> 1086

<211> 251 <212> PRT

<213> Homo sapiens

<400> 1086

Glu Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met $35 \ \ \, 40 \ \ \, 45$

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 50 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 105 110

Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 \$120\$

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 \$135\$

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 150 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser $165 \\ 170 \\ 175$

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1087

<211> 254

<212> PRT <213> Homo sapiens

<400> 1087

Gln Val Gln Leu Gln Glu Ser Gly Ala Glu Val Lys Lys Ser Gly Glu 1 5 10 15

Ser Leu Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ile Phe Thr Asp Tyr 20 25 30

Trp Ile Gly Trp Val Arg Gln Thr Pro Gly Lys Gly Leu Glu Trp Met

Gly Trp Ile Asn Pro Asn Asn Gly Gly Thr Lys Tyr Ala Gln Asn Phe 50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Val Ser Thr Ala Tyr 65 70 75 80

Met Glu Leu Ser Arg Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys $85 \hspace{1cm} 90 \hspace{1cm} 95$

Ala Arg Glu Arg His Tyr Tyr Asp Ile Leu Thr Gly Tyr Gln Thr Gly 100 105 110

Tyr Gly Met Asp Val Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln 130 140

Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser 145 \$150\$

Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn 165 170 175

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met 180 \$180\$

Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser 195 200

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Asn Thr Thr Arg Ser 225 230 235 240

Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1088

<211> 254 <212> PRT

<213> Homo sapiens

<400> 1088

Gln Val Gln Leu Gln Glu Ser Gly Ala Glu Val Lys Lys Ser Gly Glu

1 10 15

Ser Leu Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ile Phe Thr Asp Tyr 20 25 30

Trp Ile Gly Trp Val Arg Gln Thr Pro Gly Lys Gly Leu Glu Trp Met \$35\$

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Val Ser Thr Ala Tyr $65 \hspace{1.5cm} 70 \hspace{1.5cm} 75 \hspace{1.5cm} 80$

Met Glu Leu Ser Arg Leu Arg Ser Asp Asp Thr Ala Glu Tyr Tyr Cys $85 \hspace{1cm} 90 \hspace{1cm} 95$

Ala Arg Glu Arg His Tyr Tyr Asp Ile Leu Thr Gly Tyr Gln Thr Gly 105 100

Tyr Gly Met Asp Val Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser 120 115

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln 140 130 135

Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser 155 160 150

Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn 165 170 175

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met 180 185 190

Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser 195 200 205

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln 210 215 220

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser 240 230

Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1089

<211> 253

<212> PRT <213> Homo sapiens

<400> 1089 Gln Val Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Gly Ser Leu

Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr Ser Met 2.5 20

Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser 35 40

Ile Ser Ser Ser Ser Tyr Ile Tyr Tyr Ala Asp Ser Val Lys Gly 55 60 5.0

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln 75 80 70 65 Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg 90 85 Glu Gly Gly Asn Tyr Asp Ile Leu Thr Gly Tyr Tyr Ile Gly Asn Gly 105 100 Ala Phe Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly 115 120 125 Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser 135 140 130 Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile 145 150 155 160 Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr 165 170 175 Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile 180 185 190 Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly 195 200 205 Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala 215 220 210 Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Lys Ser Thr 230 235 240 Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250 <210> 1090 <211> 247 <212> PRT <213> Homo sapiens <400> 1090 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Asn Pro Gly Ser

1275

Ser Val Lys Val Ser Cys Gln Ala Phe Gly Gly Ser Phe Ser Arg Tyr 20 Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly Arg Ile Ile Pro Ile Val Ala Thr Pro Asn Tyr Ala Gln Arg Phe Gln Gly Arg Ile Thr Ile Ser Ala Asp Thr Leu Thr Ser Thr Ala Phe Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg Asp Arg Glu Thr Lys Val Gly Tyr Gly Met Asp Val Trp Gly 100 105 Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly 115 120 125 Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Pro 130 135 140 Ser Ala Ser Glv Thr Pro Glv Gln Arg Val Thr Ile Ser Cys Ser Gly 155 160 145 150 Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr Gln Arg Leu 175 165 170 Pro Gly Ala Ala Pro Gln Leu Leu Ile Tyr Asn Asn Asp Gln Arg Pro 185 Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Gly Ser Leu Val Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr

Cys Ala Ser Trp Asp Asp Ser Pro Asn Gly Arg Val Phe Gly Gly Gly 230 235 240

Thr Lys Leu Thr Val Leu Gly 245

<210> 1091 <211> 253 <212> PRT

<213> Homo sapiens

<400> 1091 Gln Val Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Gly Ser Leu 10 15

Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr Ser Met 20 25 30

Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser 35 40 45

Ile Ser Ser Ser Ser Tyr Ile Tyr Tyr Ala Asp Ser Val Lys Gly 50 60

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln $_{65}$ $_{70}$ $_{70}$

Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg \$85\$ 90 95

Glu Gly Gly Asn Tyr Asp Ile Leu Thr Gly Tyr Tyr Ile Gly Asn Gly $100 \\ 105 \\ 110$

Ala Phe Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly 115 120 125

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile 145 150 150 155 160

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr $165 \\ 170 \\ 175$

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile 180 185 190

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly 195 200 205

Ser Lys Ser Gly Thr Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala 210 \$215\$

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr 225 230235235235

Arg Val Tyr Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1092

<211> 253

<212> PRT <213> Homo sapiens

<400> 1092

Gln Val Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Gly Ser Leu 1 5 10

Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr Ser Met $20 \hspace{1cm} 25 \hspace{1cm} 30$

Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser 35 40 45

Ile Ser Ser Ser Ser Ser Tyr Ile Tyr Tyr Ala Tyr Ser Val Lys Gly $50 \ \ 55 \ \ 60$

Arg Phe Thr Ile Ser Arg Asp Asn Ala Thr Asn Ser Leu Tyr Leu Gln 65 70 80

Met Asn Ser Leu Arg Ala Glu Asp Thr Asp Val Tyr Tyr Cys Ala Arg 85 90 95

Glu Gly Gly Asn Tyr Asp Ile Leu Thr Gly Tyr Tyr Ile Gly Asn Gly 100 \$105\$

Ala Phe Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly 115 120 125 .

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser 130 135 140

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile 145 150150155

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr 165 170 175

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile 1.80 185

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly 205 195 200

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala 210 215

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr 235 240 230

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1093

<211> 253

<212> PRT

<213> Homo sapiens

<400> 1093

Gln Val Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Gly Ser Leu 1.0

Arg Leu Ser Cys Ala Ser Ser Gly Phe Thr Phe Ser Ser Tyr Ser Met 2.0

Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser 40

Ile Ser Ser Ser Ser Ser Tyr Ile Tyr Tyr Ala Asp Ser Val Lys Gly 55

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln 70

Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg 85

Glu Gly Gly Asn Tyr Asp Ile Leu Thr Gly Tyr Tyr Ile Gly Asn Gly 105

Ala Phe Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly 125 115

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser 130 135

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile 145 150 155 160

Thr Tle Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr 165 170 175

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile 180 \$180\$

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly 195 200 205

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala 210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr 225 230 235 240

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1094 <211> 253

<211> 253 <212> PRT

<213> Homo sapiens

 $<\!400>1094$ Gln Val Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Gly Ser Leu 1 5 10 15

Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr Ser Met 20 25 30

Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser 35 40 45

Ile Ser Ser Ser Ser Ser Tyr Ile Tyr Tyr Ala Asp Ser Val Lys Gly
50 55 60

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln 65 70 75 80

Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg $85 \hspace{1.5cm} 90 \hspace{1.5cm} 95$

Glu Gly Gly Asn Tyr His Ile Leu Thr Gly Tyr Tyr Ile Gly Asn Gly 100 \$105\$

Ala Phe Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly $115 \\ 125 \\ 125$

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser 130 135 140

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile 145 150 150 160

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr $165 \hspace{1cm} 170 \hspace{1cm} 170 \hspace{1cm} 175$

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile 180 185 190

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly 195 $200\,$ 205

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr 225 230235

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly \$245\$

<210> 1095

<211> 253

<212> PRT <213> Homo sapiens

 $<\!400>1095$ Gln Val Gln Gln Ser Arg Ala Glu Ala Lys Lys Pro Gly Gly Ser Leu 1 5 10 15

Arg Leu Ser Cys Ala Cys Ser Gly Phe Thr Phe Ser Ser Tyr Ser Met $20 \hspace{1cm} 25 \hspace{1cm} 30 \hspace{1cm}$

Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Arg Val Ser Ser

Ile Ser Ser Ser Ser Ser Tyr Ile Tyr Tyr Ala Tyr Ser Gln Asn Gly
50 55 60

Gln Phe Thr Ile Ser Arg Asp Asn Ala Thr Asn Ser Leu Tyr Leu Gln 65 70 75 80

Met Asn Ser Leu Arg Ala Glu Asp Thr Asp Val Tyr Tyr Cys Ala Arg 85 90 95

Glu Gly Glu Asn Tyr Asp Ile Leu Thr Gly Tyr Tyr Ile Gly Asn Gly 100 105 110

Ala Phe Asp Ile Trp Ser Arg Gly Thr Met Val Thr Val Ser Ser Gly $115 \\ 120 \\ 125$

Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser 130 135 140

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile 145 $$ 150 $$ 155 $$ 160

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr 165 170 175

Val Ser Trp Tyr Gln His His Pro Gly Lys Ala Pro Lys Leu Met Ile 180 185 190

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly 195 $200 \ \ 205$

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala 210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr 225 230 235 240

<210> 1096

<211> 253

<212> PRT <213> Homo sapiens

<400> 1096 Gln Val Gln Gln Ala Gly Ala Glu Val Lys Lys Pro Gly Gly Ser Leu 1 5 10 15

Ard Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr Ser Met 20 Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser 4.0 45 Ile Ser Ser Ser Ser Tyr Ile Tyr Tyr Ala Asp Ser Val Lys Gly 60 50 55 Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln 65 . 70 Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg 90 95 8.5 Glu Gly Gly Asn Tyr Asp Ile Leu Thr Gly Tyr Tyr Ile Gly Asn Gly 100 105 110 Ala Phe Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser 135 Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr 165 Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile 180 185 Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly 195 Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala 215 Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr 235 230

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1097

<211> 253 <212> PRT

<213> Homo sapiens

<400> 1097

Gln Val Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Gly Ser Leu 1 15

Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr Ser Met 20 25 30

Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser 35 40 45

Ile Ser Ser Ser Ser Tyr Ile Tyr Tyr Ala Asp Ser Val Lys Gly 50 $$ $$ $$

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln $_{65}$ 70 75

Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg $85 \ \ 90 \ \ 95$

Glu Gly Gly Asn Tyr Asp Ile Leu Thr Gly Tyr Tyr Ile Gly Asn Gly 100 \$105\$

Ala Phe Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser 130 \$135\$

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile 145 150 155 160

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr $165 \\ 165 \\ 170 \\ 170 \\ 175$

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile 180 185 190

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly 195 \$200\$

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala 210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr 225 230235235

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Gly Leu Gly 245 250

<210> 1098

<211> 253 <212> PRT

<213> Homo sapiens

<400> 1098

Gln Val Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Gly Ser Leu 1 5 10 15

Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr Ser Met
20 25 30

Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser 35 40 45

Ile Ser Ser Ser Ser Tyr Ile Tyr Tyr Ala Asp Ser Val Lys Gly
50 55 60

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln 65 70 80

Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg 85 90 95

Glu Gly Gly Asn Tyr Asp Ile Leu Thr Gly Tyr Tyr Ile Gly Asn Gly 100 105 110

Ala Phe Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly \$115\$ \$120\$ $$125_{\odot}$$

Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser 130 \$135\$

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile 145 150 155 160

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr 165 170 175

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly 195 200 205

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala 210 215 220

Glu Asp Glu Ala Glu Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr 225 230 235 240

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly $245 \hspace{1cm} 250 \hspace{1cm}$

<210> 1099

<211> 247

<212> PRT

<213> Homo sapiens

<400> 1099

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Asn Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Gln Ala Ser Gly Gly Ser Phe Ser Arg Tyr 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met

Gly Arg Ile Ile Pro Ile Val Ala Thr Pro Asn Tyr Ala Gln Arg Phe 50 60

Gln Gly Arg Ile Thr Ile Ser Ala Asp Thr Leu Thr Ser Thr Ala Phe $65 7075$

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Asp Arg Glu Thr Lys Val Gly Tyr Gly Met Asp Val Trp Gly 100 105 110

Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly . 115 120 125

Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Pro 130 135 140

Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly 145 $$ 150 $$ 155 $$ 160

Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Ile Trp Tyr Gln Arg Leu 165 170 175

Pro Gly Ala Ala Pro Gln Leu Leu Ile Tyr Asn Asn Asp Gln Arg Pro $180 \,\,$ $185 \,\,$ $190 \,\,$

Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Gly 195 200 205

Ser Leu Val Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr 210 220

Cys Ala Ser Trp Asp Ala Ser Pro Asn Gly Arg Val Phe Gly Gly Gly 225 230235235

Thr Lys Leu Thr Val Leu Gly 245

<210> 1100

<211> 253

<212> PRT

<213> Homo sapiens

<400> > 1100 Leu Val Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Gly Ser Leu 1 5 10 15 15

Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr Ser Met 20 25 30

Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser 35 40 45

Ile Ser Ser Ser Ser Ser Tyr Ile Tyr Tyr Ala Asp Ser Val Lys Gly 50 60

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln 65 . 70 75 80

Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg 85 90 95

Glu Gly Gly Asn Tyr Asp Ile Leu Thr Gly Tyr Tyr Ile Gly Asn Gly 100 105 110

Ala Phe Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser $_{130}$ $_{135}$ $_{140}$

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile 145 $$ 150 $$ 155 $$. 160

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr \$165\$ \$170\$

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile 180 \$180\$

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly 195 200 205

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr 225 230 235 240

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly \$245\$

<210> 1101

<211> 253

<212> PRT

<213> Homo sapiens

Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr Ser Met 20 25 30

Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser 35 40 45

Ile Ser Ser Ser Ser Ser Tyr Ile Tyr Tyr Ala Asp Ser Val Lys Gly

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln 70 65 Met Asn Ser Leu Arg Ala Glu Asp Thr Asp Val Tyr Tyr Cys Ala Arg 85 9.0 Glu Gly Gly Asn Tyr Asp Ile Leu Thr Gly Tyr Tyr Ile Gly Asn Gly 100 Ala Phe Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly 120 115 Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser 130 135 Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile 145 150 155 Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr 165 170 175 Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile 180 185 Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly 200 205 Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala 210 215 220 Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr 230 235 240 Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250 <210> 1102 <211> 249 <212> PRT <213> Homo sapiens Glu Val Asn Leu Arg Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg 5 10

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr 20 25 Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val 50 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 Ala Lys Asp Gly Tyr Tyr Asp Ile Leu Thr Gly Tyr Ser Tyr Tyr Gly 1.05 100 Met Asp Val Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly 120 115 Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ser Glu Leu 130 135 140 Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile 155 160 150 Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln 165 170 175 Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys 180 185 190 Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn 195 200

Thr Ala Ser Leu Thr Ile Ser Gly Ala Gln Ala Glu Asp Glu Ala Asp 210 215 220

Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly 225 230235235

Gly Gly Thr Lys Leu Thr Val Leu Gly

<210> 1103

<211> 251 <212> PRT

<213> Homo sapiens

<400> 1103 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr $20 \ 25 \ 30$

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met $35 \hspace{0.25in} 40 \hspace{0.25in} 45 \hspace{0.25in}$

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 50 55 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe $100 \hspace{1cm} 105 \hspace{1cm} 110 \hspace{1cm}$

Asp Ile Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 \$120\$

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150150155

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser . 165 $$170\$

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1104

<211> 248 <212> PRT

<213> Homo sapiens

<400> 1104

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr 2025

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40 45

Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Phe $50 \,$ $\,60 \,$.

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Met Glu Tyr Asp Ile Leu Thr Gly Tyr Tyr Gly Gly Tyr Phe $100 \,\,\,$

Asp Tyr Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Gly Gly Gly Gly Ser Asp Val Val Met 130 135 140

Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Leu Gly Asp Arg Val Thr 145 150 155 160

Ile Thr Cys Arg Ala Ser Gln Asp Ile Thr Asn Asp Leu Ala Trp Tyr \$165\$ \$170\$ \$175\$

Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Gly Ala Ser ' 180 185 190

Thr Leu Gln Tyr Gly Val Pro Thr Arg Phe Ser Gly Ser Gly Ser Gly

Thr Asn Phe Ser Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala 210 215 220

Thr Tyr Phe Cys Gln Gln Ser His Ser Phe Pro Pro Thr Phe Gly Gly 225 230 235 240

Gly Thr Lys Leu Glu Ile Lys Arg 245

<210> 1105

<211> 249 <212> PRT

<213> Homo sapiens

<400> 1105

Gln Val Asn Leu Arg Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val $_{50}$

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys $85 \ 90^{\prime}$

Ala Lys Asp Gly Tyr Tyr Asp Ile Leu Thr Gly Tyr Ser Tyr Tyr Gly $100 \hspace{1cm} 105 \hspace{1cm} 110 \hspace{1cm}$

Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ser Glu Leu 130 135 140

Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile 145 150 155 160

Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln 165 170 175

Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys 180 185 190

Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn 195 200

Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp 210 215 220

Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly 225 230 235 240

Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1106

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1106

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 35

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 50 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Arg Ala Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 \$120\$

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 \$135\$

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 \$150\$

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 175

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys $195 \hspace{1cm} 200 \hspace{1cm} 205 \hspace{1cm} .$

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230235235

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1107

<211> 251

<212> PRT <213> Homo sapiens

<400> 1107

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 35 40 45

Gly Trp Tle Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 50 55 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 110

Asp Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 155 150

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 170

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1108 <211> 249 <212> PRT

<213> Homo sapiens

<400> 1108 Glu Val Asn Leu Arg Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg 1 10 15

Ser Leu Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr , 20 25 Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 40 Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Lys Asp Gly Tyr Tyr Asp Ile Leu Thr Gly Tyr Ser Tyr Tyr Gly 100 105 Met Asp Val Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu 130 Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile 145 Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln 165 170 Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys 180 Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn 200 195 Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp

210 215

Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly 230 235 240

Gly Gly Thr Lys Leu Thr Val Leu Gly

<210> 1109 <211> 249 <212> PRT

<213> Homo sapiens

<400> 1109 Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Val Asp Ser Val 50 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys . 85 90 95

Ala Arg Ala Ser Tyr Tyr Asp Ile Leu Thr Gly Tyr Tyr Lys Gly Ala $100 \hspace{1.5cm} 105 \hspace{1.5cm} 110 \hspace{1.5cm}$

Phe Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly

Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu 130 135

Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile 145 $$150\$

Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln \$165\$

Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn 180 185 190

Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn 195 200

Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp 210 215 220

Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly

Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1110

<211> 249 <212> PRT

<213> Homo sapiens

<400> 1110

Asp Val Asn Leu Arg Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg 1 5 10 15

Ser Leu Arg Leu Ser Phe Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr 20 . 25 30

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val 50 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys \$85\$ 90 , \$95\$

Ala Lys Asp Gly Tyr Tyr Asp Ile Leu Thr Gly Tyr Ser Tyr Tyr Gly 100 105 110

Met Asp Val Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu 130 135 140

Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile 145 150 150 160

Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln \$165\$ \$170\$

Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys 180 185 190

Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn 195 200 205

Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp 210 \$215\$

Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly 225 230 235 240

Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1111

<211> 249

<212> PRT <213> Homo sapiens

<400> 1111

Glu Val Asn Leu Arg Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg

Ser Leu Leu Leu Thr Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr 20 25 30

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val 50 60

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys $85 \hspace{1cm} 90 \hspace{1cm} 95 \hspace{1cm} .$

Ala Lys Asp Gly Tyr Tyr Asp Ile Leu Thr Gly Tyr Ser Tyr Tyr Gly 100 105 110

Met Asp Val Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu 130 135 140

Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile 145 150 155 160

Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln \$165\$ \$170\$ \$175\$

Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys 180 185 190

Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn 195 200 205

Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp 210 215 220

Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly 225 230 235 240

Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1112

<211> 247

<212> PRT

<213> Homo sapiens

<400> 1112

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg 1 5 10 15

Ser Leu Thr Leu Ser Cys Glu Ala Ser Gly Phe Arg Phe Ser Asp Tyr 20 25 30

Pro Met His Trp Ile Arg Gln Thr Pro Gly Lys Gly Pro Glu Trp Leu $35 \ \ 40 \ \ 45$

Arg Gly Arg Phe Thr Ile Ser Arg Asp Asp Phe Thr Arg Thr Leu Phe 65 70 75 80

Leu His Ile Asn Ser Leu Arg Pro Asp Asp Thr Ala Ile Tyr Tyr Cys $$85\ ^{\circ}$$

Ala Lys Gly Asp Tyr Asp Ile Leu Thr Gly Thr Tyr Tyr Tyr Ile Asp

Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 \$120\$

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln 130 135 140

Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys 145 150 155 160

Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys \$165\$

Pro G1y Gln Ala Pro Glu Leu Val Ile Tyr G1y Lys Asn Asn Arg Pro $180 \,$ $185 \,$ $190 \,$

Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala 195 200 205

Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr 210 215 220

Cys Asp Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly Gly 225 230 235

Thr Lys Leu Thr Val Leu Gly 245

<210> 1113

<211> 249

<212> PRT

<213> Homo sapiens

<400> 1113

Phe Val Asn Leu Arg Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg

1 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr 20 25 30

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 70 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 90 Ala Lys Asp Gly Tyr Tyr Asp Ile Leu Thr Gly Tyr Ser Tyr Tyr Gly 100 Met Asp Val Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly 115 120 125 Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu 130 Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile 145 150 155 160 Thr Cys Gin Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gin 165 170 Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys 180 185 190 Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn 195 200 205 Thr Ala Ser Leu Thr Ile Thr Cly Ala Gin Ala Giu Asp Glu Ala Asp 210 215 220 Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly 225 230 235 Gly Gly Thr Lys Leu Thr Val Leu Gly 245 <210> 1114 <211> 251 <212> PRT <213> Homo sapiens <400> 1114 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Gly 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Val Asn Ser Tyr 20 Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Gln Trp Val 40 Ala Val Ile Ser Tyr Asp Gly Ser Lys Lys Tyr Tyr Ala Asp Ser Val 55 Lys Gly Arg Phe Thr Val Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95 Ala Arg Ser His Tyr Asp Ile Leu Thr Gly Leu Asn Tyr Trp Tyr Phe 100 105 ... 110 Asp Leu Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser Gly Gly Gly 115 120 Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu 130 135 140 Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 150 155 Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 $$ 230 $$ 235 $$ 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1115 <211> 249 <212> PRT

<213> Homo sapiens

<400> 1115

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr \$20\$

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val 50 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys $85 \hspace{0.25in} 90 \hspace{0.25in} 95$

Ala Lys Asp Gly Tyr Tyr Asp Ile Leu Thr Gly Tyr Ser Tyr Tyr Gly $100 \\ 105 \\ 110$

Met Asp Val Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu 130 135 140

Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile 145 \$150\$

Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln 165 170 175

Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys As
n Lys 180 185 190

Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn 195 200 205

Tyr Tyr Cys His Ser Trp Asp Ser Ser Gly Asn His Val Val Phe Gly 240 230 Gly Gly Thr Lys Leu Thr Val Leu Gly 245 <210> 1116 <211> 247 <212> PRT <213> Homo sapiens <400> 1116 Gln Val Gln Leu Leu Gln Ser Ala Ala Glu Val Lys Lys Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr 20 Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40 Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Leu 50 Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr 70 65 Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85 90 95 Ala Arg Val Tyr Tyr Asp Ile Leu Thr Gly Tyr Asn Leu Phe Phe Asp 105 100 Tyr Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln 130 135 140

Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys 145 \$150\$

Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln Gln Lys \$165\$

Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys Arg Pro 180 185 190

Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala 195 200 205

Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr 210 215 220

Cys His Ser Trp Asp Ser Ser Gly Asn His Val Leu Phe Gly Gly Gly 225 230 235 240

Thr Lys Leu Thr Val Leu Gly 245

<210> 1117

<211> 249 <212> PRT

<213> Homo sapiens

<400> 1117

Glu Val Asn Leu Arg Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Val Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr $65 70 75 $ 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys

Ala Lys Asp Gly Tyr Tyr Asp Ile Leu Thr Gly Tyr Ser Tyr Tyr Gly 100 105 110

Met Asp Val Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly
115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ser Glu Leu 130 135 140

Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile 145 150 160

Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln \$165\$

Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys $180 \\ 185 \\ 190$

Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn $195 \hspace{1.5cm} 200 \hspace{1.5cm} 205 \hspace{1.5cm}$

Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly 225 230230235235

Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1118

<211> 249

<212> PRT <213> Homo sapiens

<220> <221> Site

<221> Site <222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1118

Glu Val Asn Leu Arg Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr 20 25 30

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val

Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Xaa 50 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr $65 70$. $ 75$ Asn Thr Leu Tyr $ 65$

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 Ala Lys Asp Gly Tyr Tyr Asp Ile Leu Thr Gly Tyr Ser Tyr Tyr Gly 100 105 Met Asp Val Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly 120 . 125 Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu 135 Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile 155 150 Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln 170 165 Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys 180 185 Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn 200 195 Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp 215 210 Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly 235 230 225 Gly Gly Thr Lys Leu Thr Val Leu Gly 245 <210> 1119 <211> 249 <212> PRT <213> Homo sapiens <400> 1119 Glu Val Asn Leu Arg Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr 20 25

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Met 1309

45

35 40

Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tvr

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 90

Ala Lys Asp Gly Tyr Tyr Asp Ile Leu Thr Gly Tyr Ser Tyr Tyr Gly 100 105

Met Asp Val Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly 120

Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu 135 140

Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile 145 150 155

Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln 165 170

Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys 180 185

Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn 195 200

Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp 210 215

Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly 230

Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1120

<211> 249

<212> PRT

<213> Homo sapiens

<400> 1120 Glu Val Asn Leu Arg Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala His Ser Val 55 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Lys Asp Gly Tyr Tyr Asp Ile Leu Thr Gly Tyr Ser Tyr Tyr Gly 105 Met Asp Val Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly 120 Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ser Glu Leu 130 135 140 Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile 145 150 155 Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln 165 170 Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys 180 Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn 200 Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp 210

Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly 225 230 235 240

Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1121

<211> 251 <212> PRT

<213> Homo sapiens

<400> 1121

Glu Val Gin Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Ser Phe Ser Gly Gly Ser Phe Asn His Ala 20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 \$40\$

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met $^{\circ}$ 65 $^{\circ}$ 70 $^{\circ}$ 75 $^{\circ}$ 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala $85 \hspace{1.5cm} 90 \hspace{1.5cm} 95$

Arg Glu Leu Gly Ser Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp $100 \hspace{1.5cm} 105 \hspace{1.5cm} 110 \hspace{1.5cm}$

Met Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 125 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Val

Ile Gln Glu Pro Ser Phe Ser Val Ser Pro Gly Gly Thr Val Thr Ile 145 150 150 160

Thr Cys Gly Leu Thr Ser Gly Ser Val Thr Thr Ser Tyr Tyr Pro Thr 165 170 175

Trp Tyr Gln Gln Ala Pro Gly Gln Ala Pro Arg Thr Leu Ile Tyr Ser 180 185 190

Thr Lys Ile Arg Ser Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Ile

195 200 205

Ile Gly Asn Lys Ala Ala Leu Thr Ile Thr Gly Ala Gln Ala Asp Asp 210 215 220

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1122

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1122

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 51015

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala 20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly $35 \ \ 40 \ \ 45$

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 50 55 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met $65 \hspace{1.5cm} 70 \hspace{1.5cm} 75 \hspace{1.5cm} 75$

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala $85 \ 90 \ . \ 95$

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp 100 . 105 110

Met Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Ser Val Leu 130 135 140

Thr Gln Pro Pro Ser Val Ser Glu Ala Pro Arg Gln Arg Val Thr Ile 145 \$150\$

Ser Cys Ser Gly Ser Ala Ser Asn Val Gly Asn Asn Ala Val Asn Trp 165 170 175

Tyr Gln Gln Leu Pro Gly Lys Pro Pro Lys Leu Leu Ile Tyr Tyr Asp $180 \,$

Asp Leu Leu Pro Ser Gly Val Ser Asp Arg Phe Ser Gly Ser Lys Ser 195 200 205

Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp Glu - 210 220

Ala Asp Tyr Tyr Cys Ala Thr Trp Asp Asp Arg Leu Asn Gly Trp Val 225 230 235

Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly 245 250

<210> 1123

<211> 249 <212> PRT

<213> Homo sapiens

<400> 1123

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala $20 \hspace{1.5cm} 25 \hspace{1.5cm} 30$

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 \$40\$

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met 65 70 75 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp $100 \hspace{1.5cm} 105 \hspace{1.5cm} 110 \hspace{1.5cm}$

Met Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 1314

115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Ala Val Leu 130 135 140

Thr Gln Pro Ser Ser Val Ser Val Ala Pro Gly Glu Thr Ala Arg Val 145 150 155 160

Thr Cys Gly Gly Asn Asn Ile Gly Ser Lys Ser Val His Trp Tyr Gln $165 \hspace{1cm} 170 \hspace{1cm} 175 \hspace{1cm}$

Gln Gln Pro Gly Gln Ala Pro Val Val Val Ile Tyr Tyr Asp Ser Asp 180 185 190

Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser Asn Ser Gly Asn 195 $200\,$ 205

Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly Asp Glu Ala Asp 210 215 220

Tyr Tyr Cys Gln Val Trp Asp Ser Ser Ser Asp Leu Tyr Val Phe Gly 225 230230235

Thr Gly Thr Lys Val Thr Val Leu Gly 245

<210> 1124

<211> 244

<212> PRT

<213> Homo sapiens

<400> 1124

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 $5101015101510101510101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101$

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Val Ser Ser Arg

Thr Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40 45

Gln Gly Arg Val Ala Ile Thr Ala Asp Ala Leu Thr Asn Thr Ala Phe 65 70 75 80

Met Glu Leu Arg Ser Leu Lys Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85 90 Ala Arg Asp Gln Gly Arg Tyr Leu Asp Leu Trp Gly Arg Gly Thr Leu 100 105 110 Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly 115 120 Gly Gly Ser Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser 135 140 Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser 150 155 Asn Ile Gly Thr Asn Thr Val Asn Trp Tyr Gln His Leu Pro Gly Thr 170 165 Ala Pro Lys Leu Leu Ile Tyr Asn Asn Asn Arg Arg Pro Ser Gly Val 180 185 Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala 195 200 205 Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala 210 215 220 Trp Asp Asp Ser Leu Asn Ala Trp Val Phe Glv Glv Glv Thr Lvs Leu 225 230 235 Thr Val Leu Gly <210> 1125 <211> 253 <212> PRT <213> Homo sapiens <400> 1125 Leu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 5 Pro Val Trp Val Phe Phe Lys Ala Ser Gly Gly Thr Phe Thr Arg Tyr 20 25

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met $1316 \label{eq:condition}$

35 40 45

Gly Arg Ile Ile Pro Ile Leu Gly Ile Ala Asn Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Ser Thr Val Tyr 65 70 . 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Asp Asn Tyr Asp Ile Leu Thr Gly Tyr Ser Arg Arg Phe Asp $100 \\ 0.05 \\ 105 \\ 110$

Pro Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 \$120\$

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Asn Phe Met 130 \$135\$

Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys Thr Val Thr 145 \$150\$

Ile Ser Cys Thr Arg Ser Ser Gly Asn Ile Ala Ser Lys Tyr Val Gln $165 \\ 170 \\ 175$

Trp Tyr Gln Gln Arg Pro Gly Ser Ala Pro Thr Thr Val Ile Tyr Glu $180 \,$ $185 \,$ $190 \,$

Asn Asn Arg Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Ile \$195\$

Asp Ser Ser Ser Asn Ser Ala Ser Leu Thr Ile Ser Gly Leu Lys Thr 210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Thr Ser Ala Leu 225 230 235 240

Tyr Val Phe Gly Thr Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1126

<211> 251

<212> PRT

<213> Homo sapiens

<400)> 1:	L26													
Gln 1	Val	Ğln	Leu	Val 5	Gln	Ser	Gly	Ala	Glu 10	Val	Lys	Lys	Pro	Gly 15	Ser
Ser	Val	Lys	Val 20	Ser	Cys	Arg	Ala	Ser 25	Gly	Gly	Ser	Phe	Asn 30	His	Ala
Ile	Ser	Trp 35	Val	Arg	Gln	Ala	Pro 40	Gly	Arg	Gly	Leu	Glu 45	Trp	Met	Gly
Gly	Ile 50	Leu	Pro	Met	Tyr	Gly 55	Thr	Ala	Asn	Tyr	Ala 60	Gln	Lys	Phe	Gln
Gly 65	Arg	Val	Thr	Ile	Thr 70	Ala	Asp	Lys	Leu	Thr 75	Asn	Thr	Val	Tyr	Met 80
Asp	Leu	Ser	Arg	Leu 85	Arg	Tyr	Glu	Asp	Thr 90	Ala	Va1	Tyr	Tyr	Cys 95	Ala
Arg	Glu	Leu	Gly 100	Ser	Ser	Ile	va1	Gly 105	Ala	Thr	Thr	Gly	Ala 110	Leu	Asp
Met	Trp	Gly 115	Arg	Gly	Thr	Met	Val 120	Thr	Val	Ser	Ser	Gly 125	Gly	Gly	Gly
Ser	Gly 130	G1y	Gly	Gly	Ser	Gly 135	Gly	Gly	Gly	Ser	Ala 140	Gln	Ala	Va1	Va1
Ile 145	G1n	Glu	Pro	Ser	Pḥe 150	Ser	Val	Ser	Pro	Gly 155	Gly	Thr	Val	Thr	Ile 160
Thr	Cys	Gly	Leu	Thr 165	Ser	Gly	Ser	Val	Thr 170	Thr	Ser	Tyr	Tyr	Pro 175	Thr
Trp	Tyr	Gln	Gln 180	Ala	Pro	Gly	Gln	Ala 185	Pro	Arg	Thr	Leu	Ile 190	Tyr	Ser
Thr	Lys	Ile 195		Ser	Ser	Gly	Val 200	Pro	Asp	Arg	Phe	Ser 205	Gly	Ser	Ile
Ile	Gly 210	Asn	Lys	Ala	Ala	Leu 215	Thr	Ile	Thr	Gly	Ala 220	Gln	Ala	Asp	Asp
G1u 225		Asp	Tyr	Tyr	Cys 230	Leu	Leu	Tyr	Met	Gly 235		Gly	Thr	Arg	Val

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1127

<211> 251 <212> PRT

<213> Homo sapiens

<400> 1127

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Met Ser Ser Gly Gly Ser Phe Asn His Ala 20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly $35 \hspace{1cm} 40 \hspace{1cm} 45$

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met 65 70 75 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala $85 \hspace{1cm} 90 \hspace{1cm} 95$

Met Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ile Gln Glu Pro Ser Phe Ser Val Ser Pro Gly Gly Thr Val Thr Ile 145 \$150\$

Thr Cys Gly Leu Thr Ser Gly Ser Val Thr Thr Ser Tyr Tyr Pro Thr 165 170 175

Trp Tyr Gln Gln Ala Pro Gly Gln Ala Pro Arg Thr Leu Ile Tyr Ser 180 185 190

Thr Lys Ile Arg Ser Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Ile . 1319

195 200 205

Ile Gly Asn Lys Ala Ala Leu Thr Ile Thr Gly Ala Gln Ala Asp Asp 210 215

Glu Ser Asp Tyr Tyr Cys Met Leu Tyr Met Gly Ser Gly Thr Arg Val 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Val Gly 245 250

<210> 1128

<211> 252

<212> PRT <213> Homo sapiens

<400> 1128

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala 25 30 20

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 40

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 55

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met 70 65

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp 100 105

Met Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Ser Tyr Glu 130-135 140

Leu Thr Gln Pro Pro Ser Met Ser Gly Thr Pro Gly Gln Arg Val Thr 145 150 155

Ile Ser Cys Ser Gly Ser Ser Ser Asn Thr Gly Ser Asn Thr Val Asn 165 170 175

Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Val Leu Ile His Ser 180 185 190

Asp Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys . 195 200 205

Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp $210 \\ \hspace*{1.5cm} 215 \\ \hspace*{1.5cm} 220 \\ \hspace*{1.5cm}$

Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu Tyr Gly Tyr 225 230235235

Val Phe Gly Ala Gly Thr Lys Leu Thr Val Leu Gly $245 \ \ \,$

<210> 1129

<211> 252 <212> PRT

<213> Homo sapiens

<400> 1129
Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
1 5 10 15

Ser Val Lys Val Ser Cys Gln Ala Ser Gly Gly Thr Phe Ser Thr His

Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met \$35\$

Gln Gly Arg Leu Thr Ile Ile Ala Asp Glu Leu Thr Ser Thr Val His 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys

Ala Arg Pro Leu Gly Ile Thr Ala Val Arg Gly Ala Lys Thr Asp Ala $100\,$

Phe Gly Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly

115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val 130 . 135 140

Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr 145 150 150 160

Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Asn 165 170 175

Trp Tyr Gln Arg Leu Pro Gly Ala Ala Pro Gln Leu Leu Ile Tyr Asn 180 185 190

Asn Asp Gln Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys 195 200 205

Glu Ala Asp Tyr Tyr Cys Ala Ser Trp Asp Asp Ser Leu Asn Gly Arg 225 \$230\$

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1130 <211> 251

<212> PRT

<213> Homo sapiens

<400> 1130

Gln Met Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Fro Gly Ser 1 $5101015101015101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101$

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asm His Ala $20 \\ 25 \\ 30$

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 50 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met $65 7075$

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp 100 105 110

Met Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 . 125

Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Leu . 130 135

Thr Gln Pro Ser Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Met 145 . 150 155

Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Asn Trp 165 170 . 175

Tyr Gln Gln Leu Pro Gly Ala Ala Pro Lys Leu Leu Ile Tyr Arg Ser 180 185

Asp Gln Arg Ser Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser 195 200

Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp Glu 215 220

Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu Asp Gly Tyr Val 230 235

Phe Gly Thr Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1131 <211> 252

<212> PRT

<213> Homo sapiens

<400> 1131 Gin Val Gin Leu Val Gin Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 10

Ser Val Lys Val Ser Cys Ser Ala Ser Gly Gly Ser Phe Asn His Ala 2.0 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 1323

35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln $_{50}$

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met 65 70 75 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala $85 \hspace{1cm} 90 \hspace{1cm} 95$

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp \$100\$

Met Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Gly Gly Gly Gly Ser Ala Leu Ser Tyr Val 130 135

Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr 145 150150155155

Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn Tyr Val Phe $165 \\ 170 \\ 175$

Trp Tyr Gln Gln Leu Pro Gly Ala Ala Pro Lys Leu Leu Ile Tyr Arg \$180\$

Asn Ser Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Thr $195 \hspace{1cm} 200 \hspace{1cm} 205 \hspace{1cm}$

Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Arg Ser Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ala Ala Arg Asp Asp Ser Leu Arg Gly Pro $225 \hspace{1.5cm} 230 \hspace{1.5cm} 235 \hspace{1.5cm} 240$

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly $245\,$

<210> 1132

<211> 251 <212> PRT

<213> Homo sapiens

<400> 1132 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1.0 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 20 Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 50 55 Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 105 Asp Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Glv Glv Glv 120 Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu 135 Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 150 Ser Cys Thr Gly Thr Ser Ser Asn Val Gly Gly Tyr Asn Tyr Val Ser 170 Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205 Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220 Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230

1325

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1133

<211> 251 <212> PRT

<213> Homo sapiens

<400> 1133

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr 20 25 30

Ala Phe Asn Trp Val Arg Arg Ala Pro Gly Gln Gly Leu Glu Trp Leu 35 40 . 45 .

Gly Ser Ile Val Pro Val Phe Asn Thr Lys Thr Phe Ala Arg Lys Phe 50 55 60

Gln Gly Arg Val Thr Leu Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr 65 70 75 80

Leu Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys $85 \hspace{1cm} 90 \hspace{1cm} 95$

Ala Ser Arg Tyr Gly Asp Pro Phe Tyr Tyr Tyr Tyr Tyr Met Asn Val $100 \\ 105 \\ 110$

Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser $115 \\ 120 \\ 125$

Gln Pro Pro Ser Val Ser Gly Ala Pro Gly Gln Arg Val Thr Ile Ser 145 \$150\$

Cys Thr Gly Ser Ser Ser Asn Ile Gly Asp Gly Tyr Asp Val His Trp
165 170 175

Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Gly Asn 180 185 190

Thr Asm Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser 1326

195 200 205

Asp Thr Ser Ala Ser Leu Ala Ile Thr Gly-Leu Gln Val Glu Asp Glu 210 215 220

Ala Asp Tyr Phe Cys His Ser Tyr Asp Ser Ser Leu Ser Gly Trp Ile 225 230230235240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 . 250

<210> 1134

<211> 248 <212> PRT

<213> Homo sapiens

<400> 1134

Glu Val Gln Leu Val Glu Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Ile Phe Ser Ser Asn $20 \\ 25 \\ 30$

Gly Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met $35 \ \ \, 40 \ \ \, 45$

Gln Gly Arg Val Thr Ile Asn Ala Asp Asp Leu Thr Arg Thr Val Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Gly Asp Thr Ala Val Tyr Tyr Cys $85 \hspace{1cm} 90 \hspace{1cm} 95$

Ala Arg Gly Gly Ser Ser Gln Asn Phe Tyr Gly Met Asp Val Trp Gly $100 \\ 0.05$

Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly . 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Pro Val Leu Thr Gln Pro
130 140

Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Tle Ser Cys Ser 145 $$150\$

Gly Ser Ser Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr Gln Gln 175 \$175

Val Pro Gly Thr Ala Pro Lys Leu Leu Met Tyr Thr Asn Asn Gln Arg

Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser 195 200 205

Tyr Cys Ala Ala Trp Asp Asp Ser Leu Asn Gly Trp Val Phe Gly Gly 225 230235235

Gly Thr Lys Val Thr Val Leu Gly 245

<210> 1135

<211> 252

<212> PRT <213> Homo sapiens

VELDY HOMO Bugitor

<400> 1135

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 $$ 15

Ser Val Lys Val Ser Cys Met Ala Ser Gly Gly Ser Phe Asn His Ala $20 \hspace{1.5cm} 25 \hspace{1.5cm} 30 \hspace{1.5cm}$

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 4045

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 50 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met $65\,\cdot\,\,\,70\,\,\,\,75\,\,\,\,\,\,$ 80

Asp Leu Ser arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala $85 \hspace{1.5cm} 90 \hspace{1.5cm} 95$

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp 100 - 105

Met Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 1328

115 120 125

Ser Gly Gly Gly Gly Gly Gly Gly Ser Ala Leu Ser Tyr Val $130\,$

Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr 145 \$150\$

Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn Tyr Val Phe \$165\$ \$170\$

Trp Tyr Gln Gln Leu Pro Gly Ala Ala Pro Lys Leu Leu Ile Tyr Arg \$180\$

Asn Ser Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Thr \$195\$

Glu Ala Asp Tyr Tyr Cys Ala Ala Arg Asp Asp Ser Leu Arg Gly Pro $225 \hspace{1.5cm} 230 \hspace{1.5cm} 235 \hspace{1.5cm} 235 \hspace{1.5cm}$

Val Fhe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly $245 \\ $ 250

<210> 1136 <211> 254

<212> PRT

<213> Homo sapiens

<400> 1136

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala $20 \hspace{1.5cm} 25 \hspace{1.5cm} 30$

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly $35 \hspace{1cm} 40 \hspace{1cm} 45$

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met $65 70 75 . 80 $

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp 100 105 110

Met Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 120

Ser Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Ala Val Leu 130

Thr Gln Pro Ser Ser Val Ser Gly Thr Pro Gly Gln Thr Ile Thr Ile 145 150 155

Ser Cys Thr Gly Ser Asp Ser Asn Ile Gly Ala Gly Tyr Asp Val His 170 175 165

Trp Tyr Gln His Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Val 180 185

Asn Thr Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys 195 200 205

Ser Gly Thr Leu Ala Ser Leu Val Ile Thr Gly Leu Gln Ala Glu Asp 210 215

Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Leu Ser Leu Thr Gly Arg 230

Asn Tyr Val Phe Gly Ser Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1137

<211> 255 <212> PRT

<213> Homo sapiens

<400> 1137 Glu Val Gln Leu Val Gln Ser Gly Gly Gly Leu Ile Gln Pro Gly Gly 5 1.0

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Val Ser Asn Asn 20 25

Tyr Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 1330

35 40 45

Ser Leu Ile Tyr Ser Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val Lys 50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu 65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Ala Gly Ser Gly Phe His Asp Ile Leu Thr Gly Tyr Tyr Lys Gly $100 \ \ \, 105 \ \ \, 110$

Gly Tyr Phe Asp Tyr Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala 130 $$135\ ^{\circ}$$

Gln Pro Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln 145 150 155 160

Arg Val Thr Ile Ser Cys Ser Gly Ser Arg Ser Asn Ile Gly Ser Asn 165 \$170\$

Ile Tyr Thr Asp Thr Gln Arg Pro Ser Gly Vàl Pro Asp Arg Val Ser 195 200 205

Ser Glu Asp Glu Ala Asp Tyr His Cys Ala Ala Trp Asp Asp Ser Leu 225 $$ 230 $$ 235 $$ 240

As Gly Trp Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly 245 250 255

<210> 1138

<211> 249

<212> PRT

<213> Homo sapiens

<400> 1138 Gln Met Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser Ser Val Lys Val Ser Cys Gln Ala Ser Gly Gly Asn Phe Asn Ser Tyr Glv Val Ser Tro Val Arg Gln Ala Pro Glv Gln Glv Leu Glu Tro Met Gly Arg Ile Ile Pro Asn Val Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Ser Thr Val Tyr 70 Leu Glu Val Arg Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 9.0 Ala Arg Gly Asp Tyr Asp Ile Leu Thr Gly Tyr Pro Ala Glu Cys Phe 100 105 Gln Ile Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Ala Val 150 Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Phe Asp Ala Ser Trp 165 Tyr Gln Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Ile Phe Ser Asn 185 Thr Arg Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ile Ser 200 Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu 215 Ala Ala Tyr Tyr Cys Cys Ser Arg Asp Ser Gly Asp His Val Phe Gly 230 235

1332

Gly Gly Thr Lys Val Thr Val Leu Gly 245

<210> 1139

<211> 254 <212> PRT

<213> Homo sapiens

<400> 1139

Glu Val Gln Leu Val Gln Ser Gly Gly Gly Val Val Gln Pro Gly Arg 1 5 10 15

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val \$35\$

Ala Gly Ile Ser Tyr Asp Gly Arg Tyr Lys Tyr Tyr Ala Asp Ser Val

Arg Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Val Asp 65 \$75

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys $85 \hspace{1.5cm} 90 \hspace{1.5cm} 95$

Ala Gln Gly Ser Val Tyr Asp Ile Leu Thr Gly Thr Tyr Tyr Lys Ser $100 \ \ 105 \ \ 110$

Gly Met Gly Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly 115 \$120\$

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln 130° . \$135

Ser Val Val Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Met 145 150 155 160

Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asp Asn Phe

Val Ser Trp Tyr Gln His Leu Pro Gly Ala Ala Pro Lys Leu Leu Ile 180 185 190

Tyr Asp Asn Asn Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly

195 200 205

Ser Lys Ser Gly Thr Ser Ala Thr Leu Gly Ile Thr Gly Leu Gln Thr 210

Gly Asp Glu Ala Asp Tyr Tyr Cys Gly Thr Trp Asp Ser Ser Leu Asn 225 230 235

Ala Gly Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1140

<211> 251 <212> PRT

<213> Homo sapiens

<400> 1140

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 10

Ser Val Lys Val Phe Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala 25

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 40

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met 70

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala

Arg Glu Leu Gly Ser Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp 100

Met Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115 120

Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Val 135

Ile Gln Glu Pro Ser Phe Ser Val Ser Pro Gly Gly Thr Val Thr Ile 150 155

Thr Cys Gly Leu Thr Ser Gly Ser Val Thr Thr Ser Tyr Tyr Pro Thr 165 $$170\ \,$ 175

Trp Tyr Gln Gln Ala Pro Gly Gln Ala Pro Arg Thr Leu Ile Tyr Ser 180 185 190

Ile Gly Asn Lys Ala Ala Leu Thr Ile Thr Gly Ala Gln Ala Asp Asp 210 215 220

Glu Ser Asp Tyr Tyr Cys Leu Leu Tyr Met Gly Ser Gly Thr Arg Val 225 . 230 235 235

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1141

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1141

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 $$ 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala 20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly $35 \hspace{1cm} 40 \hspace{1cm} 45$

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 50 55 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met $65 \hspace{1cm} 70 \hspace{1cm} 75 \hspace{1cm} 80$

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Met Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 1335

115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Val

Ile Gln Glu Pro Ser Phe Ser Val Ser Pro Gly Gly Thr Val Thr Ile 145 \$150\$

Thr Cys Gly Leu Thr Ser Gly Ser Val Thr Thr Ser Tyr Tyr Pro Thr \$165\$ \$170\$ \$175\$

Trp Tyr Gln Gln Ala Pro Gly Gln Ala Pro Arg Thr Leu Ile Tyr Ser \$180\$

Thr Lys Ile Arg Ser Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Ile $195 \hspace{1.5cm} 200 \hspace{1.5cm} 205 \hspace{1.5cm}$

Ile Gly Asn Lys Ala Ala Leu Thr Ile Thr Gly Ala Gln Ala Asp Asp 210 \$215\$

Glu Ser Asp Tyr Tyr Cys Met Leu Tyr Met Gly Ser Gly Thr Arg Val 225 230235235

<210> 1142 <211> 249

<212> PRT

<213> Homo sapiens

<400> 1142

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala 20 25 30

Phe Asn Trp Val Arg Arg Ala Pro Gly Gln Gly Leu Glu Trp Leu Gly 35 40 45

Ser Ile Val Pro Val Phe Asn Thr Lys Thr Phe Thr Arg Lys Phe Gln $50 \,$

Gly Arg Val Thr Leu Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr Leu 65 70 75 80

Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Ser Arg Tyr Gly Asp Pro Phe Tyr Tyr Tyr Tyr Tyr Tyr Met Asn Val Trp $100 \,$ $105 \,$ $110 \,$

Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly 115 120 125

Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Ala Val Leu Thr Gln 130 135 140

Thr Gly Ser Asn Ser Asn Ile Gly Ala Gly Tyr Asp Val His Trp Tyr \$165\$ \$170\$ \$175\$

Gln His Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Gly Asn Asn 180 185 190

Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly 195 $200\,$

Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln Ala Glu Asp Glu Ala 210 $$\rm 220$$

Asp Tyr Tyr Cys Gln Ser Tyr Asp Thr Gly Leu Asn Val Leu Phe Gly 225 $$. $$ 230 $$ 235 $$ 240

Ala Gly Thr Lys Val Thr Val Leu Gly \$245\$

<210> 1143

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1143

Gly Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ala Asn Tyr 20 25 30

Ala Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met

1337

35 40 45

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr $_{65}$ $$ 70 $$ 75 $$ 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys $85 9095$

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe $100 \\ 105 \\ 110$

Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Gly Gly Gly Ser Gln Ser Val Leu $130 \\ \rm 135 \\ \rm 140 \\ \rm C$

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 150 155

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser $165 \ \ 170 \ \ 170$

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu $180 \,$ $185 \,$ $190 \,$

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 · 200 205

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1144

<211> 252 <212> PRT

<212> PRT

<213> Homo sapiens

<400> 1144 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr Ala Phe Asn Trp Val Arg Arg Ala Pro Gly Gln Gly Leu Glu Trp Leu Gly Ser Ile Val Pro Val Phe Asn Thr Lys Thr Phe Ala Arg Lys Phe Gln Gly Arg Val Thr Leu Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr Leu Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 90 Ala Ser Arg Tyr Gly Asp Pro Phe Tyr Tyr Tyr Tyr Tyr Met Asn Val 105 Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser 120 Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Ala Val Leu Thr 135 Gln Pro Ser Ser Val Ser Gly Ala Pro Gly Gln Arg Val Thr Ile Ser 150 Cys Ala Gly Ser Ser Ser Asn Ile Gly Ala Gly Tyr Asp Val His Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Gly Asn 180 185 190 Asn Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser 200 Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln Ala Glu Asp Glu 215 Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser Leu Ser Gly Ser Thr

1339

230

Val Phe Gly Thr Gly Thr Lys Leu Thr Val Leu Gly

<210> 1145

<211> 252 <212> PRT

<213> Homo sapiens

<400> 1145

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser

Ser Val Lys Val Phe Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala $20 \\ 25 \\ 30$

. Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly \$35\$ \$40\$

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 50 55 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met $65 7075$

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala $85 \\ 90 \\ 95$

Met Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 120

Ser Gly Gly Gly Gly Gly Gly Gly Gly Ser Ala Leu Ser Tyr Val 130 135 140

Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr 145 150150150155

Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn Tyr Val Phe
165 170 175

Trp Tyr Gln Gln Leu Pro Gly Ala Ala Pro Lys Leu Leu Ile Tyr Arg 180 185 190

Asn Ser Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Thr 1340

195 . 200 205

Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Arg Ser Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ala Ala Arg Asp Asp Ser Leu Arg Asp Pro $225 \hspace{1.5cm} 230 \hspace{1.5cm} 235 \hspace{1.5cm} 240 \hspace{1.5cm}$

Ile Phe Gly Gly Glu Thr Lys Leu Thr Val Leu Asp 245 250

<210> 1146

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1146

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala

1 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Gly Tyr 20 25 30

Ala Met His Trp Val Arg Gln Ala Pro Gly Gln Arg Leu Glu Trp Met \$35\$

Gln Gly Arg Val Thr Ile Thr Arg Asp Thr Ser Ala Ser Thr Ala Tyr 65 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys , 85 90 95

Ala Arg Gly Tyr Asp Asp Ile Leu Thr Gly Tyr Ile Met Ala Leu Asp $100 \hspace{1.5cm} 105 \hspace{1.5cm} 110 \hspace{1.5cm}$

Tyr Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Leu 130 135 140

Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Arg Val Thr Ile 145 150 155 160

Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser His Phe Val Ser Trp
165 170 175

Tyr Gln Gln Phe Pro Gly Thr Ala Pro His Leu Leu Ile Tyr Asp Asn $180 \,$

Asn Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser 195 200

Asp Thr Ser Ala Thr Leu Asp Ile Thr Gly Leu Gln Pro Gly Asp Glu 210 215 220

Ala Asp Tyr Tyr Cys Gly Thr Trp Asp Ser Ser Leu Thr Ala Trp Val 225 230 235 240

Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly 245 250

<210> 1147

<211> 251 <212> PRT

<212> PRT

<213> Homo sapiens

<400> 1147

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 $$ 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala 20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 $^{\circ}$ 40 $^{\circ}$ 45

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met $65 \hspace{1.5cm} 70 \hspace{1.5cm} 75 \hspace{1.5cm} 75$

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala $85 \hspace{1.5cm} 90 \hspace{1.5cm} 95$

Arg Glu Leu Gly Ser Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp $100 \qquad 105 \qquad 110$

Met Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 1342

115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Val 130 135

Ile Gln Glu Pro Ser Phe Ser Val Ser Pro Gly Gly Thr Val Thr Ile 145 \$150\$

Thr Cys Gly Leu Thr Ser Gly Ser Val Thr Thr Ser Tyr Tyr pro Thr 165 \$170 \$175

Thr Lys Ile Arg Ser Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Ile $195 \hspace{1.5cm} 200 \hspace{1.5cm} 205 \hspace{1.5cm}$

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245° 250

<210> 1148 <211> 251

<212> PRT

<213> Homo sapiens

<400> 1148

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$

Ser Val Lys Val Ser Cys Arg Ala Phe Gly Gly Ser Phe Asn His Ala 20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln
50 55 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met 65 70 75 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Glu Leu Gly Ser Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp \$100\$

Met Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Val 130 135

Ile Gln Glu Pro Ser Phe Ser Val Ser Pro Gly Gly Thr Val Thr Ile 145 \$150\$

Thr Cys Gly Leu Thr Ser Gly Ser Val Thr Thr Ser Tyr Tyr Pro Thr 165 170 175

Trp Tyr Gln Gln Ala Pro Gly Gln Ala Pro Arg Thr Leu Ile Tyr Ser $^\circ$ 180 $^\circ$ 190 $^\circ$

Thr Lys Ile Arg Ser Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Ile 195 \$200\$

Ile Gly Asn Lys Ala Ala Leu Thr Ile Thr Gly Ala Gln Ala Asp Asp 210 215 220

Glu Ser Asp Tyr Tyr Cys Leu Leu Tyr Met Gly Ser Gly Thr Arg Val 225 \$230\$ 230 235

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1149

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1149

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala $20 \\ 25 \\ 30$

Ile Ser Trp Val Arg Gin Ala Pro Gly Arg Gly Leu Glu Trp Met Gly

35 40 45

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met 65 70 75 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Met Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115 \$120\$

Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Ala Val Val 130 \$135\$

Ile Gln Glu Pro Ser Phe Ser Val Ser Pro Gly Gly Thr Val Thr Ile 145 \$150\$

Thr Cys Gly Leu Thr Ser Gly Ser Val Thr Thr Ser Tyr Tyr Pro Thr. 165 170 175

Trp Tyr Gln Gln Ala Pro Gly Gln Ala Pro Arg Thr Leu Ile Tyr Ser 180 185 190

Thr Lys Ile Arg Ser Ser Gly Val Leu Ile Gly Ser Leu Ala Ser Ile 195 200 205

Ile Gly Asn Lys Ala Ala Leu Thr Ile Thr Gly Ala Gln Ala Asp Asp 210 215 220

Glu Ser Asp Tyr Tyr Cys Leu Leu Tyr Met Gly Ser Gly Thr Arg Val 225 230225235235

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1150

<211> 256 <212> PRT

<213> Homo sapiens

	0> 1 Val		Leu	Val 5	Gln	Ser	Gly	Ala	Glu 10		Lys	Lys	Pro	Gly 15	
Ser	Leu	Lys	Leu 20	Ser	Cys	Arg	Ala	Ser 25	Gly	Gly	Ser	Phe	Asn 30		Ala
Ile	Ser	Trp 35	Val	Arg	Gln	Ala	Pro 40	Gly	Arg	Gly	Leu	Glu 45	Trp	Met	Gly
Gly	Ile 50	Leu	Pro	Met	Tyr	Gly 55	Thr	Ala	Asn	Tyr	Ala 60	Gln	Lys	Phe	Gln
Gly 65	Arg	Val	Thr	Ile	Thr 70	Ala	Asp	Lys	Leu	Thr 75	Asn	Thr	Val	Tyr	Met 80
Asp	Leu	Ser	Arg	Leu 85	Arg	Tyr	Glu	Asp	Thr 90	Ala	Val	Tyr	Tyr	Cys 95	Ala
Arg	Glu	Leu	Gly 100	Ser	Ser	Ile	Val	G1y 105	Ala	Thr	Thr	Gly	Ala 110	Leu	Asp
Met	Trp	Gly 115	Arg	G1y	Thr	Met	Val 120	Thr	Val	Ser	Ser	Gly 125	G1y	Gly	Gly
Ser	Gly 130	Gly	Gly	Gly	Ser	Gly 135	Gly	Gly	Gly	Ser	Ala 140	Gln	Ala	Va1	Arg
Thr 145	Gln	Pro	Ser	Ser	Leu 150	Tyr	Ala	Ser	Pro	Val 155	Ala	Ser	Ser	Ser	Leu 160
Thr	Cys	Ala	Ser	Leu 165	Ser	Gly	Ile	Asn	Ala 170	Gly	Thr	Leu	Gly	Ile 175	Tyr
Trp	Tyr	G1n	Gln 180	Lys	Pro	G1y	Ser	Pro 185	Pro	Gln	Tyr	Leu	Val 190	Ser	Cys
īvs	Ser	Val 195	Ser	Asp	Lys	Gļn	Gln 200	Gly	Ser	Gly	Val	Pro 205	Ser	Arg	Phe
?he	Gly 210	Ser	Lys	Asp	Ala	Ser 215		Asn	Ala	Gly	Ile 220	Ser	Ile	Ile	Ser
31y 225	Leu	Gln	Ser	Glu	Asp 230	Glu	Ala	Asp	Tyr	Tyr 235	Cys	Met	Ile		His 240

Ser Ser Ala Ser Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly

<210> 1151

<211> 251 <212> PRT

<213> Homo sapiens

<400> 1151

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala $20 \hspace{1.5cm} 25 \hspace{1.5cm} 30$

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 50 55 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met 65 70 75 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala $85 \hspace{1.5cm} 90 \hspace{1.5cm} 95$

Arg Glu Leu Gly Ser Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp $100 \hspace{1.5cm} 105 \hspace{1.5cm} 110 \hspace{1.5cm}$

Met Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Val 130 135 140

Ile Gln Glu Pro Ser Phe Ser Val Ser Pro Gly Gly Thr Val Thr Ile 145 150 155 160

Thr Cys Gly Leu Thr Ser Gly Ser Val Thr Thr Ser Tyr Tyr Pro Thr 165 $$ 170 $$ $$ 175

Trp Tyr Gln Gln Ala Pro Gly Gln Ala Pro Arg Thr Leu Ile Tyr Ser

Thr Lys Ile Arg Ser Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Ile 1347

195 200 205

Ile Gly Asn Lys Ala Ala Leu Thr Ile Thr Gly Ala Gln Ala Asp Asp 210 215 220

Glu Ser Asp Tyr Phe Ser Leu Leu Tyr Met Gly Ser Gly Thr Arg Val 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1152

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1152

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 $$ 10 $$ 15

Ser Leu Lys Leu Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala 20 25 30

% Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 \$40\$

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln $50 \\ 95 \\ 60$

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met $65 75 75$

Arg Glu Leu Gly Ser Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp \$100\$

Met Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Ala Val Val 130 135 140

Ile Gln Glu Pro Ser Phe Ser Val Ser Pro Gly Gly Thr Val Thr Ile 145 \$150\$

Thr Cys Gly Leu Thr Ser Gly Ser Val Thr Thr Ser Tyr Tyr Pro Thr $165 \\ 170 \\ 175$

Trp Tyr Gln Gln Ala Pro Gly Gln Ala Pro Arg Thr Leu Ile Tyr Ser 180 185 190

Thr Lys Ile Arg Ser Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Ile $195 \hspace{1.5cm} 200 \hspace{1.5cm} 205$

Ile Gly Asn Lys Ala Gly Leu Thr Ile Thr Gly Ala Gln Ala Asp Asp 210 215 220

Glu Ser Asp Tyr Tyr Trp Leu Leu Tyr Met Gly Ser Gly Thr Pro Val 225 \$230\$

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1153

<211> 255

<212> PRT

<213> Homo sapiens

<400> 1153

Gln Val Gln Leu Val Glu Ser Gly Pro Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Asp Ile Asn Trp Val Arg Gln Ala Thr Gly Gln Gly Leu Glu Trp Met 35 40 45

Glu Gly Arg Val Ser Met Thr Thr Asn Ile Pro Lys Lys Thr Val Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys \$85\$

Ala Arg Gly Thr Gly Tyr Asp Ile Leu Thr Gly Tyr Tyr Met Gly Ser $100 \\ 105$

Ala Phe Asp Gln Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly 1349

115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln 130 135 140

Ala Val Leu Thr Gln Pro Ser Ser Val Ser Gly Ala Pro Gly Gln Arg 145 150 155 160

Val Thr Ile Ser Cys Thr Gly Ser Ser Ser Asn Ile Gly Ala Gly Tyr 165 170 175

Asp Val Tyr Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu 180 185 190

Ile Tyr Arg Asn Asn Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser $195 \\ 200 \\ 200 \\ 205 \\ $

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln 210 215

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser Leu 225 230 235 240

Ser Glu Glu Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly 245 250 255

<210> 1154 <211> 251

<212> PRT

<213> Homo sapiens

<400> 1154

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr 20 25 30

Ala Phe Asn Trp Val Arg Arg Ala Pro Gly Gln Gly Leu Glu Trp Leu 35 40 45

Gln Gly Arg Val Thr Leu Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr 65 70 75 80

Leu Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Ala Val Leu Thr 130 135

Gln Pro Ser Ser Val Ser Gly Ala Pro Gly Gln Arg Val Thr Ile Ser 145 \$150\$

Cys Thr Gly Ser Ser Ser Asn Ile Gly Asp Gly Tyr Asp Val His Trp \$165\$

Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Gly Asn \$180\$

Ser Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser 195 200

Asp Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln Val Lys Asp Glu 210 \$210\$

Ala Asp Tyr Phe Cys His'Ser Tyr Asp Ser Ser Val Ser Gly Trp Ile 225 230235235235

Phe Gly Gly Gly Thr Lys Pro Thr Val Leu Gly $245\ \ \,$ 250

<210> 1155

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1155

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 $$ 5 $$ 10 $$ 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala $^{\circ}20$

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 1351

,35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln. $50\,$

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met $_{65}$ $$ 70 $$ 75 $$ 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala \$85\$ 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp \$100\$

Met Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Ala Val Leu 130 \$135\$

Thr Gln Pro Ser Ser Val Ser Gly Thr Pro Gly Gln Arg Val Thr Ile 145 \$150\$

Ser Cys Ser Gly Ala Arg Ser Asn Ile Gly Ser Asn Thr Val Asn Trp \$165\$

Tyr Gln His Phe Pro Gly Thr Ala Pro Lys Leu Val Met Tyr Ser Asn \$180\$

Asp Gln Arg Pro Ser Gly Val Pro Ala Arg Phe Ser Gly Ser Arg Ser 195 200 205

Gly Thr Ser Ala Ser Leu Ala Ile Gly Arg Leu Gln Ser Glu Asp Glu 210 215 220

Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu Asn Gly Pro Val 225 230 235

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1156

<211> 255 <212> PRT

<213> Homo sapiens

)> 1: Val		Leu	Gln 5	Gln	Ser	Gly	Ala	Glu 10	Val	Lys	Lys	Pro	Gly 15	Ala
Ser	Val	Lys	Val 20	Ser	Cys	Lys	Ala	Ser 25	Gly	Tyr	Thr	Phe	Thr 30	Ser	Tyr
Tyr	Met	His 35	Trp	Val	Arg	Gln	Ala 40	Pro	Gly	Gln	Gly	Leu 45	Glu	Trp	Met
Gly	Ile 50	Į1e	Asn	Pro	Ser	Gly 55	Gly	Ser	Thr	Ser	Tyr 60	Ala	Gln	Lys	Phe
Gln 65	Gly	Arg	Val	Thr	Met 70	Thr	Arg	Asp	Thr	Ser 75	Thr	Ser	Thr	Val	Tyr 80
Met	Glu	Leu	Ser	Ser 85	Leu	Arg	Ser	Glu	Asp 90	Thr	Ala	Val.	Tyr	Tyr 95	Cys
Ala	Arg	Gly	Gly 100	Glu	Tyr	Asp	Ile	Leu 105	Thr	Gly	Tyr	Tyr	Phe 110	Gly	Leu
Gly	Val	Tyr 115	Asp	Tyr	Trp	Gly	Gln 120	Gly	Thr	Met	Va1	Thr 125	Val	Ser	Ser
Gly	Gly 130		Gly	Ser	Gly	Gly 135	Gly	Gly	Ser	Gly	Gly 140	Gly	Gly	Ser	Ala
Gln 145	Ser	Val	Leu	Thr	G1n 150	Pro	Pro	Ser	Val	Ser 155	Ala	Ala	Pro	Gly	Gln 160
Lys	Val	Thr	Ile	Ser 165	Cys	Ser	Gly	Ser	Ile 170	Ser	Asn	Tle	Gly	Asn 175	Lys
Tyr	Val	Ser	Trp 180		Gln	Gln	Leu	Pro 185	Gly	Thr	Ala	Pro	Lys 190	Leu	Leu
Ile	Tyr	Asp 195		Asp	Lys	Arg	Pro 200		Gly	Ile	Pro	Asp 205	Arg	Phe	Ser
Gly	Ser 210		Ser	Gly	Thr	Ser 215	Ala	Thr	Leu	Gly	11e 220		Gly	Leu	Gln
Thr 225		Asp	Glu	. Ala	Asp 230		Tyr	Cys	Gly	Thr 235	Trp	Asp	Ser	Ser	Leu 240

Ser Ala Gly Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250 255

<210> 1157

<211> 251 <212> PRT

<213> Homo sapiens

<400> 1157

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala 20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly $35 \hspace{1cm} 40 \hspace{1cm} 45$

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala $85 \\ 90 \\ 95$

arg Glu Leu Gly Ser Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp $100 \\ 105 \\ 110$

Met Trp Gly Thr Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 125 \$125\$

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Val 130 140

Ile Gln Glu Pro Ser Phe Ser Val Ser Pro Gly Gly Thr Val Thr Ile 145 \$150\$

Thr Cys Gly Leu Thr Ser Gly Ser Val Thr Thr Ser Tyr Tyr Pro Thr 165 170 175

Trp Tyr Gln Gln Alá Pro Gly Gln Ala Pro Arg Thr Leu Ile Tyr Ser 180 185 190

Thr Lys Ile Arg Ser Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Ile 1354

195 200 20

Ile Gly Asn Lys Ala Ala Leu Thr Ile Thr Gly Ala Gln Ala Asp Asp 210 215 220

Glu Ser Asp Tyr Tyr Cys Leu Leu Tyr Met Gly Ser Gly Thr Arg Val 225 230230235235

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1158

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1158

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr $20 \\ 25 \\ 30$

Ala Phe Asn Trp Val Arg Arg Ala Pro Gly Gln Gly Leu Glu Trp Leu $35 \hspace{1cm} 40 \hspace{1cm} 45 \hspace{1cm}$

Gly Ser Ile Val Pro Val Phe λsn Thr Lys Thr Phe Ala Arg Lys Phe 50 55 60

Gln Gly Arg Val Thr Leu Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr $65 70 75 $ 75

Leu Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys \$85\$

Ala Ser Arg Tyr Gly Asp Pro Phe Tyr Tyr Tyr Tyr Tyr Met Asn Val 100° . 105°

Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser $115 \\ 120 \\ 125$

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Leu Thr 130 135 140

Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser 145 150 155 160